WEATHER MAPS,

PUBLISHED AT SYDNEY,

NEW SOUTH WALES,

1881.

H. C. RUSSELL, B.A.,

GOVERNMENT ASTRONOMER.

NOAA
U.S. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

March 21

Map Nov 9th

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WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 1 1881, with NOTES to 3 P.M.

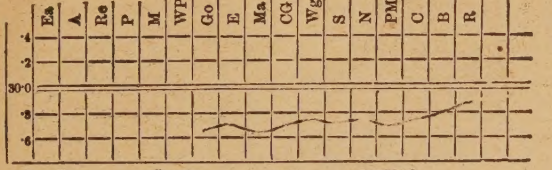
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December · 49·445.
Total Rainfall from Jan. 1st to December 31 29·513.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wth	Max	Min	rain
Casino..	b	109	71	0
Tenterfild	b	95	63	0
Moree....	b	100	83	0·07
Grafton..	b	105	76	0
Inverell..	.	..	..	..
Bourke ..	b	116	73	0
Narrabri	b	103	79	0
Armidale	b	91	62	0
Bendem'r	.	..	..	..
Gunned'h	.	..	..	..
Coonab'rn	c	109	70	0
P.Macqrie	g	83	69	0·05
Murr'undi	b	100	69	0
Cassilis..	b	107	73	0
Mus'br'ok	b	114	66	0
Dubbo...	b	102	73	0
Mudgee ..	b	106	66	0
Maitland.	b	106	..	0
Hill End.	b	97	52	0
Newcastle	b	88	51	0
Orange..	b	98	55	0
Bathurst.	b	101	55	0
Condob'ln	.	..	..	..
MtVict'ria	b	96	51	0
Forbes...	b	106	67	0
SYDNEY. .	b	83	63	0
		E		
Pictor	b	93	56	0
Wentw'th	b	86	58	0
Young...	b	96	58	0
Wollgo'ng	b	81	57	0
Moss Vale	b	94	55	0
Euston...	b	98	57	0
Goulburn	b	103	50	0
Wagga...	o		52	0
Cape Geo.	b	86	..	0
Queanb'n	b	96	58	0
Deniliq'n	b	97	52	0
Moruya..	c	76	56	0
Kiandra..	.	..	..	.
Albury .	b	93	52	0
Bodalla.	b	88	50	0
Cooma...	b	97	48	0
Eden....	o	76	57	0
Gabo Is.'d	b	68	57	0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

—29·74 R 87

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

MI's WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
55-Whole ,,

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

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WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 3 1881, with NOTES to 3 P.M.

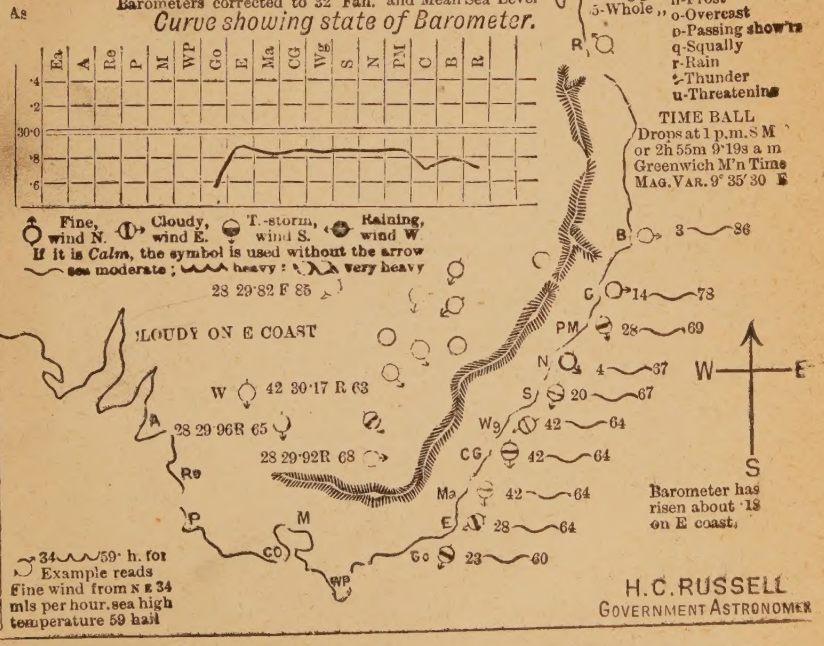
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December - 49·445.
Total Rainfall from Jan. 1st to January 3 0·000.
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.

Stations.	Wth	Max	Min	rain
Casino..	b	102	66	0
Tenterfild	b	96	57	0
Moree....	b	92	72	0
Grafton..	b	90	65	0
Inverell..	.	..	..	..
Bourke ..	b	105	73	0
Narrabri	b	101	66	0
Armidale	b	91	60	0
Bendem'r	b	97	48	0
Gunned'h	b	105	59	0
Coonab'rn	b	92	58	0
P.Macqrie	g	79	68	0·59
Murr'undi	c	91	66	0
Cassilis..	g	100	51	0
Mus'br'ok	g	101	61	0
Dubbo...	b	97	65	0
Mudgee .	g	97	59	0
Maitland.	g	90	..	0·05
Hill End.	b	92	46	0
Newcastle	c	82	47	0·05
Orange..	g	82	53	0
Bathurst.	c	88	47	0
Condob'ln	b	78	66	0
MtVict'ria	g	80	51	0·05
Forbes...	b	98	59	0
SYDNEY...	g	77	64	0
	E			
Pictor	o	81	65	0
Wentw'th	b	83	52	0
Young...	b	84	59	0
Wollgo'ng	e	76	62	0
Moss Vale	g	76	53	0
Kuston...	b	93	54	0
Goulburn	g	88	53	0
Wagga...	g		50	0
Cape Geo.	b	76	..	0·05
Queanb'n	g	90	57	0
Deniliq'in	b	85	56	0
Moruya..	b	72	58	0
Kiandra..	.	..		.
Albury..	b	92	47	0
Bodalla..	b	78	56	0
Cooma...	c	75	49	0
Eden....	g	81	57	0
Gabo Isl'd	g	64	57	0·04



H.C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

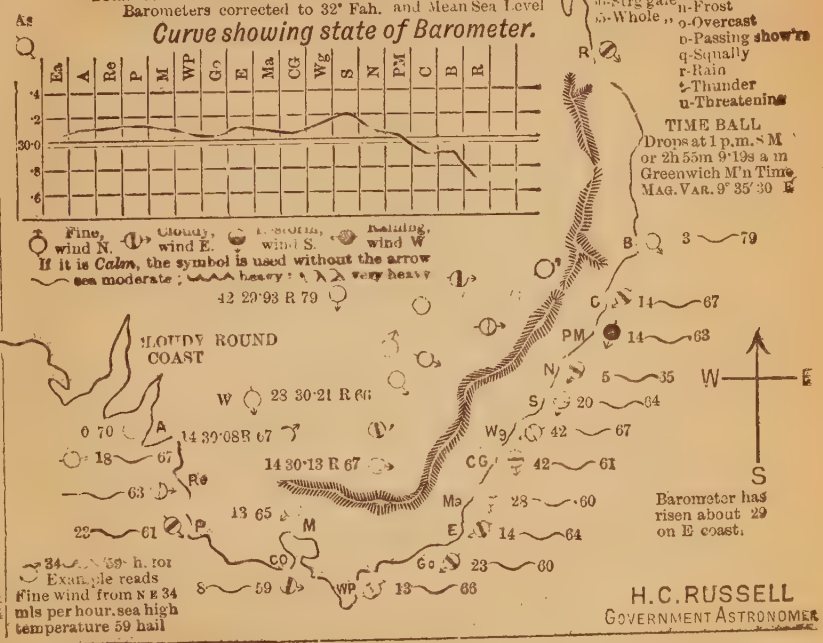
COMPILED from TELEGRAMS for 9 A.M., JANR'Y 4 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December . . 49·445.
Total Rainfall from Jan. 1st to January 4 0·000.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wd	Max	Min	Rain
Casino..	b	93	65	0·50
Tenterfild.	c	90	50	0
Moree....	b	91	70	0
Grafton..	b	93	70	0·07
Inverell..	b	96	64	0
Bourke ..	b	94	67	0
Narrabri	b	98	65	0
Armidale	g	83	55	0
Bendem'r	b	91	54	0
Gunned'h	b	101	52	0
Coonab'rn	c	87	55	0
P.Macqrie	p	72	60	0 70
Murr'undi	b	78	58	0
Cassilis..	b	83	55	0
Mus'br'ok	g	82	56	0
Dubbo...	b	89	64	0
Mudgee .	b	91	56	0
Maitland.	c	75	..	0·20
Hill End.	b	77	44	0
Newcastle	c	82	56	0·67
Orange..	b	69	49	0
Bathurst.	b	64	54	0
Condob'lin	b	74	46	0
MtVict'ria	g	67	44	0
Forbes...	b	94	59	0
SYDNEY .	g	72	60	0
13 71		E		
Pictor	b	73	52	0
Wentw'th	b	81	56	0
Young...	b	78	56	0
Wollgo'ng	c	73	58	0
Moss Vale	r	64	50	0·07
Euston...	b	96	55	0
Goulburn	g	86	44	0
Wagga...	b	..	50	0
Cape Geo.	c	74	..	0
Queanb'n	b	81	55	0
Deniliq'in	b	84	55	0
Moruya..	b	70	55	0
Kiandra..	b	49	40	0
Albury .	b	88	49	0
Bodalla.	.	..	..	.
Cooma...	c	67	41	0·01
Eden....	g	81	56	0·01
Gabo Isl'd	o	64	57	0



H.C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

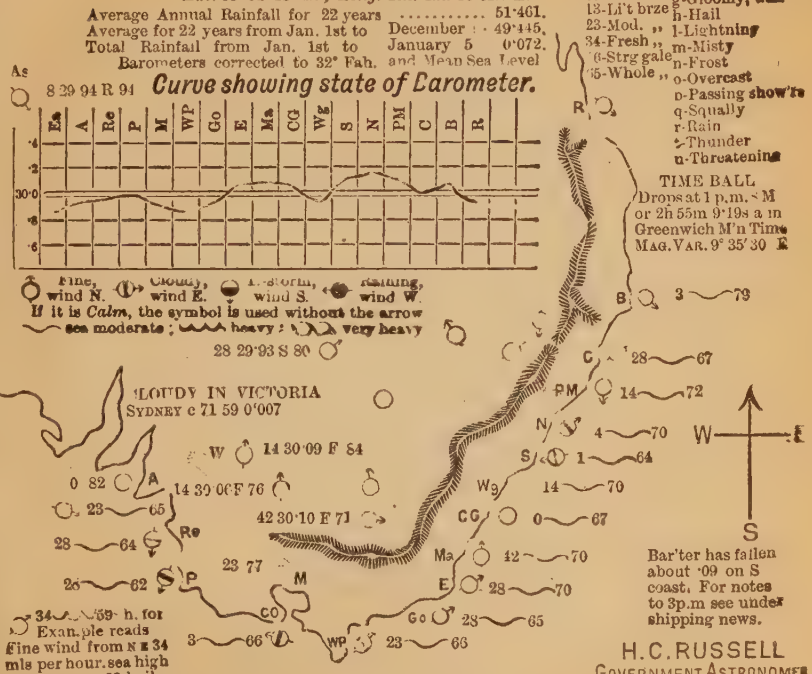
COMPILED from TELEGRAMS for 9 A.M., JANR'Y 5 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 5 49·445.
Total Rainfall from Jan. 1st to January 5 0·072.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wth	Max	Min	rain
Casino..	b	81	64	0
Tenterfild	b	73	46	0
Moree....	b	88	76	0
Grafton..	b	81	59	0
Inverell..	b	82	55	0
Bourke ..	b	92	69	0
Narrabri	b	100	61	0
Armidale	b	85	53	0
Bendem'r	b	81	52	0
Gunned'h	b	91	49	0
Coonab'rn	b	87	51	0
P.Macqrie	b	77	58	0
Murr'undi	b	75	55	0
Cassilis..	b	83	60	0
Mus'br'ok	b	82	52	0
Dubbo...	b	88	63	0
Mudgee .	b	79	54	0
Maitland.	b	75	..	0·08
Hill End.	b	83	46	0
Newcastle	g	83	48	0·09
Orange..	b	75	49	0
Bathurst.	b	75	47	0
Condob'ln	b	75	54	0
MtVict'ria	c	73	48	0
Forbes...	b	90	63	0
SYDNEY .	c	71	59	0·07
Picton	c	75	48	0
Wentw'th	b	90	56	0
Young...	b	77	55	0
Wollgo'ng	b	76	54	0
Moss Vale	b	67	42	0
Euston...	b	103	65	0
Goulburn	b	69	46	0
Wagga...	b		59	0
Cape Geo.	b	70	..	0
Queanb'n	b	81	51	0
Deniliq'in	b	89	56	0
Moruya..	b	70	54	0
Kiandra..	b	48	41	0
Albury..	b	92	49	0
Bodalla.	.	..		.
Cooma...	b	78	40	0
Eden....	b	70	59	0
Gabo Is'd	b	73	57	0



Bar'ter has fallen about ·09 on S coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

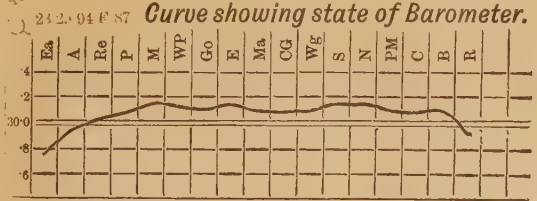
COMPILED from TELEGRAMS for 9 A.M., JANR'Y 6 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 6 49·445.
Total Rainfall from Jan. 1st to January 6 0·072.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	Mn	R'in
Casino..	b	84	58	0
Tenterfild	b	67	51	0
Moree....	b	86	75	0
Grafton...	b	82	60	0
Inverell..	b	83	66	0
Bourke ..	c	101	75	0
Narrabri	b	100	69	0
Armidale	g	78	56	0
Bendem'r	b	89	50	0
Gunned'h	b	93	59	0
Coonamle	b	102	69	0
Tamworth	b	100	54	0
Coonab rn	c	90	56	0
P.Macqrie	b	74	60	0
Murr'undi	b	82	59	0
Cassilis..	b	97	57	0
Mus'br'ok	b	90	54	0
Dubbo...	b	89	68	0
Mudgee .	b	88	61	0
Maitland.	b	82	59	0
Hill End.	b	77	50	0
Newcastle	b	77	52	0
Orange..	b	79	55	0
Bathurst.	b	84	54	0
Condob'n	b	80	67	0
MtVict'ria	b	80	55	0
Forbes...	b	96	62	0
13 61		E		
Picton	b	82	53	0
Wentw'th	b	101	68	0
Young...	b	81	61	0
Wollgo'ng	c	78	54	0
Moss Vale	b	77	53	0
Euston...	b	105	65	0
Goulburn	b	86	51	0
Wagga...	b	92	62	0
Cape Geo.	b	73	..	0
Queanb'n	b	85	58	0
Deniliq'in	b	98	62	0
Moruya..	g	73	59	0
Kiandra..	b	50	44	0
Albury..	b	95	54	0
Bodalla.	o	82	52	0
Cooma...	b	88	42	0
Eden....	b	72	59	0
Gabo Isl'd	b	69	60	0



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

14 29·93 S 89

FINE GENERALLY
SYDNEY b 71 60 Rain 0·0

W 28 30·07 F 83

3 83 A

18 72

0 30·05 F 79

14 30·09 F 76

23 66 Re

13 65 M

34 63 P

CO

18 62

WP 13 65

Ma 42 64

E 28 71

Go 23 63

CG 28 72

Wg 14 74

S 0 71

N 5 70

PM 14 71

C 14 72

B 3 82

R

Fine wind from N E 34 mls per hour. sea high temperature 59 hail

WIND SCALE.
1-Light breze
2-Fresh „
3-Strong gale
4-Whole „

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30 E

W E S

Bar'ter has fallen about ·15 in S.A. coast. For notes to 3p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

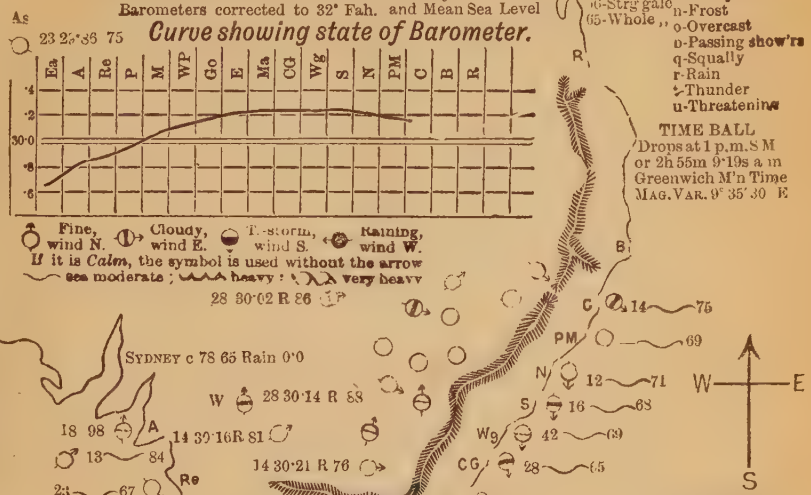
COMPILED from TELEGRAMS for 9 A.M., JANR'Y 7 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 31 49·445.
Total Rainfall from Jan. 1st to January 7 0·072.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	Mn	R'in
Casino.	b	90	61	0
Tenterfield	b	78	48	0
Moree....	b	87	77	0
Grafton..	c	90	60	0
Inverell..	b	88	65	0
Bourke ..	c	105	68	0
Narrabri	b	101	70	0
Armidale	g	73	54	0
Bendem'r	b	89	53	0
Gunned'h	g	92	57	0
Coonam'le	b	103	70	0
Tamworth	b	99	55	0
Coonab rn	c	92	61	0
P.Macqrie	b	80	65	0
Murr'undi	b	83	62	0
Cassilis..	c	97	63	0
Mus'br'ok	b	93	61	0
Dubbo...	b	91	68	0
Mudgee..	b	96	61	0
Maitland.	c	84	68	0
Hill End.	b	83	40	0
Newcastle	b	82	59	0
Orange..	b	86	56	0
Bathurst.	b	89	56	0
Condob'ln	b	89	72	0
MtViet'ria	c	82	55	0
Forbes...	b	100	64	0
13 90		E		
Pictor	g	84	55	0
Wentw'th	b	107	76	0
Young...	b	89	63	0
Wollgo'ng	c	80	54	0
Moss Vale	g	77	56	0
Euston...	b	109	78	0
Goulburn	g	86	57	0
Wagga...	b	95	65	0
Cape Geo.	c	..	..	0
Queanb'n	g	88	59	0
Deniliq'in	b	103	89	0
Moruya..	b	72	62	0
Kiandra..	.	..	..	..
Albury..	b	101	60	0
Bodalla.	g	79	57	0
Cooma...	c	90	52	0
Eden....	.	..	..	..
Gabo Isl'd	g	76	57	0



H.C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 8 1881, with NOTES to 3 P.M.

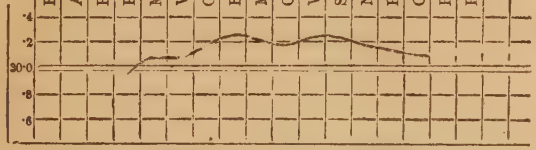
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 49·445.
Total Rainfall from Jan. 1st to January 8 0·072.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	Mn	R'in
Casino.	b	85 57	0	·01
Tenterfild	b	72 45	0	
Moree....	b	87 78	0	
Grafton..	b	80 62	0	·28
Inverell..	b	86 56	0	
Bourke ..	c	99 75	0	
Narrabri	b	104 68	0	
Armidale	b	77 55	0	
Bendem'r	b	81 50	0	
Gunne l'h		..	..	
Coonamble	b	102 63	0	
Tamworth	b	100 51	0	
Coonab'rn	b	89 56	0	
P. Macquarie	b	77 63	0	·09
Murr'ndi	b	85 61	0	
Cassilis	c	93 64	0	
Mus'br'ok	b	90 57	0	
Dubbo...	b	90 66	0	
Mudgee..	b	92 58	0	
Maitland.	b	83 64	0	
Hill End.	b	80 44	0	
Newcastle	b	81 59	0	
Orange..	b	81 5	0	
Bathurst.	b	84 52	0	
Condo5'n		..	..	
Mt Vict'ria	c	75 50	0	
Forbes...	b	105 67	0	
		b		
Picton	b	76 58	0	
Wentw'th	g	107 80	0	
Young...	b	86 57	0	
Wollgo'ng	b	75 62	0	
Moss Vale	g	65 55	0	
Euston...	b	103 80	0	
Goulb'rn	b	76 53	0	
Wagga...	b	96 62	0	
Cape Geo.	b	71 ..	0	
Queanb'n	b	80 57	0	
Deniliq'in	b	103 71	0	
Moruya..	b	73 61	0	
Bandra..	b	65 46	0	
Albury .	b	103 62	0	
Bodalla.	g	79 58	0	
Cooma...	b	81 43	0	
Eden....	g	75 61	0	
Gabo Isl'd	g	73 61	0	

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

28 30·01 F 84

CLOUDY IN VICTORIA
SYDNEY c 72 65 Rain 0·

W —30·09 F 57

A 14 30·17 R 75

Re 42 30·23 R 73

8 86

0 73 P M

CO 23 65

WP 28 66

Ma 14 68

E 11 65

Go 23 66

Wg 14 74

CG 28 69

S 8 69

N 8 69

PM 42 71

C 63

B

R

34 59 h. for
Example reads
Fine wind from N E 34
mls per hour, sea high
temperature 59 hail

WIND SCALE.
13-Li't brze
23-Mod. "
34-Fresh "
46-Strg gale
55-Whole "

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Barometers very steady.
For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

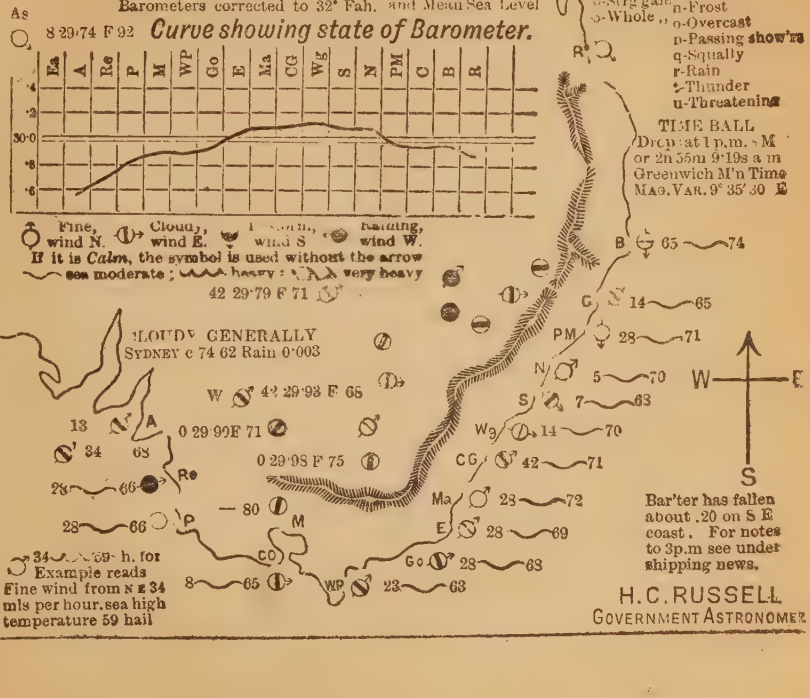
COMPILED from TELEGRAMS for 9 A.M., JANR'Y 10 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December . 49·445.
Total Rainfall from Jan. 1st to January 10 0·075.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	Min	R'in
Casino..	g	87 65		0
Tenterfild	g	80 46		0
Moree....	r	86 73		0
Grafton..	b	87 55		0
Inverell..	g	84 58		0
Bourke ..	g	98·66		0·03
Narrabri	r	99 72		0
Armidale	g	78 53		0
Bendem'r	g	88 51		0
Gunned'h	g	97 55		0
Coonam'le	c	96 66		0
Tamworth	c	98 59		0
Coonab rn	c	82 61		0·01
P.Macqrie	b	75 61		0
Murr'undi	b	81 59		0
Cassilis..	g	88 62		0
Mus'br'ok	b	89 56		0
Dubbo...	g	88 66		0
Mudgee .	g	90 60		0
Maitland.	c	82 63		0
Hill End.	c	80 38		0
Newcastle	b	77 [illegible]		0
Orange.	g	77 5[illegible]		0
Bathurst.	g	84 55		0
Condob'in	c	72 63		0
MtVict'ria	c	77 50		0
Forbes...	c	88 59		0
Pictor	o	75 52		0
Wentw'th	g	77 63		0
Young...	c	83 61		0
Wollongong	c	80 59		0
Moss Vale	b	76 54		0
Euston...	g	75 63		0·72
Goulburn	c	74 53		0
Wagga...	g	93 67		0
Cape Geo.	c	78 ..		0
Queanb'n	c	88 58		0
Deniliq'in	g	90 66		0
Moruya..	b	77 64		0
Kiandra..	b	54 46		0
Albury .	c	97 63		0·06
Bodalla.	b	82 45		0
Cooma...	c	74 48		0·11
Eden....	b	72 63		0
Gabo Isl'd	b	69 62		0



H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 11 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

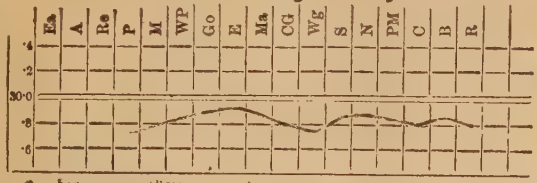
Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December . 49·445.
Total Rainfall from Jan. 1st to January 11 0·262.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	M'n	R'in
Casino..	c	84	59	0
Tenterfild.	g	68	59	0·37
Moree....	r	72	69	0·32
Grafton..	g	84	66	0
Inverell..	r	84	59	0·04
Bourke ..	p	76	65	1·15
Narrabri	c	71	60	0·17
Armidale	g	72	55	0
Bendem'r	g	82	52	0
Gunned'h	g	88	53	0
Coonamble	c	73	62	0·28
Tamworth	c	94	60	0
Coonab'rn	r	79	60	0·02
P.Macqrie	g	76	62	0·11
Murr'undi	g	79	57	0
Cassilis..	g	88	64	0
Mus'br'ok	b	89	59	0
Dubbo...	r	79	65	0
Mudgee .	g	90	60	0
Maitland.	g	81	64	0
Hill End.	g	77	73	0
Newcastle	c	81	48	0·10
Orange..	g	77	55	0
Bathurst.	g	74	57	0
Condob'lin	r	65	59	0
MtVict'ria	r	69	51	0
Forbes...	c	90	59	0
	E			
Picton	d	75	59	0·06
Wentw'th	r	75	63	1·85
Young...	c	79	63	0
Wollgo'ng	r	81	60	0·10
Moss Vale	c	71	57	0·18
Euston...	g	68	57	2·59
Goulburn	c	78	56	0·01
Wagga...	g	83	66	0
Cape Geo.	p	79	..	0·03
Queanb'n	g	78	60	0
Deniliq'in	c	81	65	0
Moruya..	p	79	62	0·31
Kiandra..	c	58	52	0
Albury .	g	88	44	0
Bodalla.	p	82	54	0·18
Cooma...	c	77	52	0
Eden....	p	72	63	0·30
Gabo Isl'd	o	71	63	0

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE. Mls
13-Li't brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
65-Whole ,,

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Thunder-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Bar'ter has fallen about ·15 on E coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JAN'Y 12 1881, with NOTES to 3 P.M.

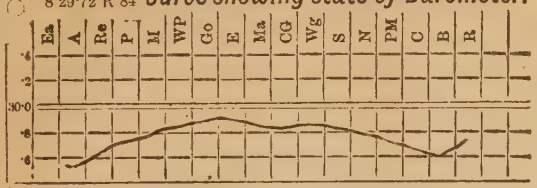
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 12 0·448.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	Min	R'in
Casino..	r	78 63	0·68	
Tenterfild	g	60 49	0·89	
Morpe....	r	69 66	0 90	
Grafton..	g	74 65	0·50	
Inverell..	g	72 61	0·30	
Bourke ..	g	69 64	0·65	
Narrabri	g	69 63	1·30	
Armidale	r	72 54	0·57	
Bendem'r	g	70 52	0·13	
Gunned'h	g	73 52	0·15	
Coonamble	r	63 50	0 63	
Tamworth	g	81 55	0·23	
Coonabarn	r	70 57	0·17	
P.Macqrie	o	76 66	0·12	
Murr'undi	r	75 65	0·09	
Cassilis..	p	75 56	0	
Mus'br'ok	r	81 60	0	
Dubbo...	g	78 63	0	
Mudgee..	g	75 64	0	
Maitland.	p	75 66	1·8	
Hill End.	g	68 40	0·04	
Newcastle	r	62 45	2·20	
Orange..	g	68 54	0	
Bathurst.	g	68 59	0	
Condob'lin	p	70 59	0	
Mt Vict'ria	r	63 53	2·95	
Forbes...	c	89 58	0	
		E		
Picton	p	76 62	0·51	
Wentw'th	c	69 60	0·80	
Young...	p	74 59	0·06	
Wollgo'ng	p	81 62	0 70	
Moss Vale	r	63 56	0·60	
Euston...	g	69 60	0	
Goulburn	g	78 55	0·31	
Wagga...	g	78 64	0	
Cape Geo.	p	71	0·57	
Queanbn	c	72 59	0·03	
Deniliq'in	g	71 61	0·18	
Moruya..	g	75 65	0	
Kiandra..	r	65 33	0	
Albury .	c	84 64	0	
Bodalla.		..	..	
Cooma...	c	67 51	0·10	
Eden....	g	79 62	0·01	
Gabo Isl'd	g	68 61	0	

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

14 29·50 F 66

CLOUDY GENERALLY
SYDNEY 4 72 65 Rain 0·186

W 42 29·65 R 69

18 69 A 28 29 76 S 71

23 68

42 29·82 F 71

23 55 Re

13 75 M

34 68 P

34 59 h. for Example reads
fine wind from N E 34
mls per hour. sea high
temperature 59 hail

48 63 CO

WP 48 63

Go 3 55

E 42 69

Ma 42 70

CG 42 67

Wg 28 70

S 24 60

N 5 62

PM 4 69

C 14 64

B 65 56

R

WIND SCALE.
Mil's
13-Li't brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale
55-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·194 s m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W E S

Bar'ter has fallen about ·14 on E coast. For notes to 3p m see the shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 13 1881, with NOTES to 3 P.M.

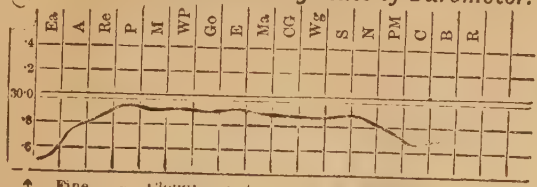
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

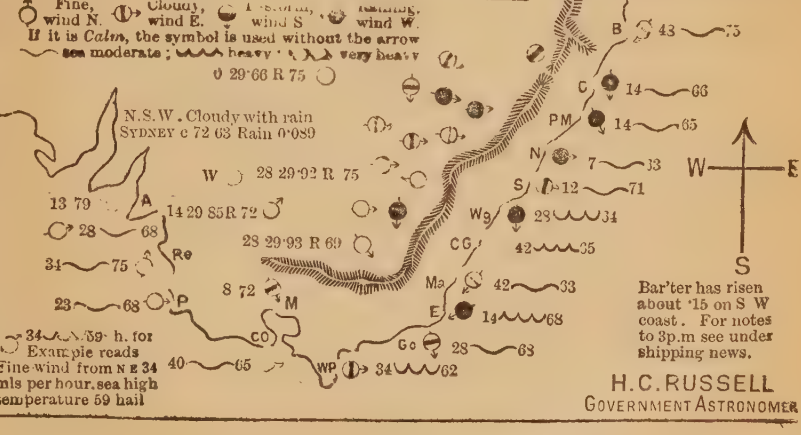
Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 49·415.
Total Rainfall from Jan. 1st to January 13 0·537.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	Wt	M'x	Mn	R'in
Casino..	c	77	64	0·14
Tenterfild	.	..	..	..
Moree....	g	75	69	0·45
Grafton...	g	76	65	0·30
Inverell..	.		.	..
Bourke ..	b	80	67	0
Narrabri	p	76	64	0·58
Armidale	r	60	55	1·06
Bendem'r	r	64	58	0
Gunned'h	r	72	55	0·47
Coonamble	c	72	61	0·19
Tamworth	p	73	57	0·15
Coonab'rn	g	66	58	0·41
P.Macqrie	r	72	64	2·72
Murr'undi	r	73	61	0·32
Cassilis..	r	71	60	0·51
Mus br'ok	r	72	55	0·20
Dubbo...	g	72	64	0·09
Mudgee .	g	71	60	0
Maitland.	r	70	64	1·85
Hill End .	g	68	35	0·01
Newcastle	r	79	47	1·50
Orange..	g	71	52	0·.5
Bathurst.	g	68	56	0·02
Condob'lin	p	72	63	0
MtVict'ria	p	57	50	0·69
Forbes...	c	85	57	0
13 70		E		
Picton	g	74	59	0·26
Wentw'th	b	73	65	0
Young...	b	75	58	0
Wollgo'ng	p	73	62	0·23
Moss Vale	r	64	51	0·20
Euston...	b	81	64	0
Goulburn	b	81	55	0·09
Wagga...	b	82	56	0
Cape Geo.	b	72	..	0·10
Queanb'n	b	73	54	0
Deniliq'in	b	83	60	0
Moruya..	g	72	56	0
Kiandra..	b	70	63	0
Albury .	b	85	51	0
Bodalla.	p	72	50	0·25
Cooma...	b	68	39	0
Eden....	p	69	58	0·03
Gabo Is'd	c	71	59	0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy



Bar'ter has risen about ·15 on S W coast. For notes to 3p.m see under shipping news.

WEATHER.
b-Blue sky.
c-Scatter'd clouds.
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE. Mls
13-Lt brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale
55-Whole ,,

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H.C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 14 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 14 0·985.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wt	M'x	Mn	R'in
Casino..	p	76	61	0·10
Tenterfield	r	69	48	0·80
Moree....	g	75	72	0·05
Grafton..	g	72	62	0·20
Inverell..	g	78	60	0.15
Bourke ..	b	85	65	0
Narrabri	b	78	59	0·35
Armidale	b	65	50	0·87
Bendem'r	b	70	52	0 05
Gunned'h	b	75	47	0·06
Coonam'le	c	76	54	0
Tamworth	b	76	49	0·09
Coonab rn	b	75	47	0
P.Macqrie	b	71	60	0·36
Murr'undi	c	65	5	0·10
Cassilis..	g	78	56	0
Mus'br'ok	b	71	55	0·08
Dubbo...	c	73	62	0
Mudgee .	g	71	60	0
Maitland.	c	74	61	0·35
Hill End .	b	68	43	0·01
Newcastle	n	81	70	0·99
Orange..	b	74	49	0·02
Bathurst.	b	73	52	0
Condob'lin	b	7[illegible]	55	0
MtVict'ria	c	70	50	0 04
Forbes...	b	89	59	0
		E		
Picton	g	74	52	0
Wentw'th	b	89	64	0
Young...	b	78	6	6
Wollgo'ng	p	74	56	0·06
Moss Vale	r	67	48	0·11
Euston...	b	89	61	0
Goulburn	m	73	43	0·02
Wagga...	b	85	57	0
Cape Geo.	c	83	..1	22
Queanb'n	c	81	51	0
Deniliq'in	b	91	56	0
Moruya..	p	68	55	0·44
Kiandra..	g	58	54	0
Albury .	b	92	52	0
Bodalla.	p	78	51	0·75
Cooma...	c	69	44	0
Eden....	p	68	56	0·42
Gabo Isl'd	b	70	59	0·15

H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 15 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 15 2·304.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	w't	M'x	M'n	R'in
Casino..	b	74	60	0·05
Tenterfild	b	72	46	0·74
Moree....	b	81	62	0
Grafton..	b	75	58	0.06
Inverell..	b	84	51	0
Bourke ..	b	91	68	0
Narrabri	b	88	59	0
Armidale	b	70	52	0
Bendem'r	b	78	54	0
Gunned'b	.	..	..	..
Coonam'le	.	85	65	0
Tamworth	b	86	52	0
Coonab rn	b	80	46	0·01
P.Macqrie	g	74	63	0
Murr'undi	g	74	60	0
Cassilis..	b	91	55	0
Mus'br'ok	g	81	57	0
Dubbo...	b	81	62	0
Mudgee .	b	85	52	0
Maitland.	g	75	64	0·75
Hill End.	b	75	45	0·02
Newcastle	b	70	59	0·51
Orange..	b	70	50	0
Bathurst.	c	72	55	0
Condob'lin	b	73	64	..
MtVict'ria	p	64	51	0·13
Forbes...	b	92	61	0
		E		
Pictor	o	89	60	0·13
Wentw'th	b	92	64	0
Young...	c	75	58	0
Wollgo'ng	p	74	59	0·44
Moss Vale	r	63	52	1·14
Euston...	b	91	58	0
Goulburn	p	74	45	0·18
Wagga...	b	85	60	0
Cape Geo.	r	71	..	0 29
Queanb'n	c	57	57	0
Deniliq'in	b	89	61	0
Moruya..	.	..		..
Kiandra..	b	64	53	..
Albury .	b	90	57	0
Bodalla.	.	..		..
Cooma...	c	67	51	0
Eden....	r	69	57	0·37
Gabo Isl'd	r	72	61	0·19

WIND SCALE.

M/s	
13-Li't brze	
23-Mod. „	
34-Fresh „	
6-Strg gale	
5-Whole „	

WEATHER.

b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Curve showing state of Barometer.

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

30·0

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy

14 29·79 F 79

N.S.W. Cloudy with rain
SYDNEY d 70 61 Rain 1·319

W 28 29·96 E 81

A 14 29·95 F 74

42 29 95 F 71

8 77

Re P M CO WP Go E Ma CG Wg S N PM C B R

8 68 18 66 34 63 23 63 14 62 56 64 65 57 28 64 19 36 42 3 14 66 13 76

34 59 h. for Example reads
Fine wind from N E 34 mls per hour, sea high temperature 59 hail

TIME BALL
Drops at 1 p.m. S M or 2h 55m 9·19s a m Greenwich M'n Tim
MAG. VAR. 9° 35′ 30

W E S

Bar'ter has fallen about ·15 on E coast For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 17 1881, with NOTES to 3 P.M.

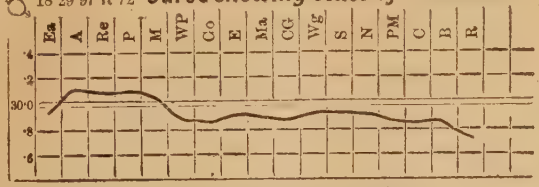
Sydney Observatory.

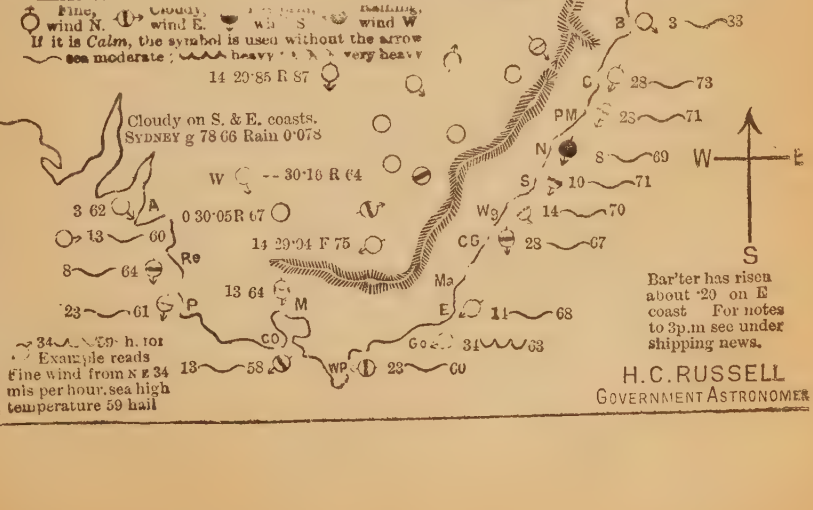
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 17 2·382.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	wt	Mx	Mn	Rin
Casino..	c	92 66		0
Tenterfild	b	82 46		0
Moree.....	b	95 73		0
Grafton..	b	88 69		0
Inverell..	.	..	..	..
Bourke ..	b	103 77		0
Narrabri	b	104 66		0
Armidale	b	82 55		0
Bendem'r	b	87 59		0
Gunned'h	b	103 47		0
Coonam'le	.	99 69		0
Tamworth	b	1·1 59		0
Coonab rn	b	94 57		0
P.Macqrie	c	79 67		0·03
Murr'undi	o	86 64		0
Cassilis..	c	99 53		0
Mus'br'ok	b	96 64		0
Dubbo...	o	93 55		0
Mudgee .	b	100 55		0
Maitland.	g	85 67		0·36
Hill End.	b	85 43		0
Newcastle	p	74 57		0
Orange.	b	88 58		0
Bathurst.	b	89 51		0
Condob'lin	b	80 65		0
MtVict'ria	b	80 57		0
Forbes...	b	98 64		0
13 71		E		
Picton	b	90 67		0
Wentw'th	p	86 54		0
Young...	b	88 66		0
Wollgo'ng	c	89 63		0
Moss Vale	b	81 59		0
Euston...	b	102 88		0
Goulburn	b	99 59		0
Wagga...	b	100 64		0
Cape Geo.	c	76 ..		0
Queanb'n	c	93 54		0
Deniliq'in	b	95 4		0
Moruya..	.	..		..
Kiandra..	c	68 30		0
Albury .	b	101 53		0
Bodalla.	.	..		..
Cooma...	c	93 56		0·01
Eden....	c	77 62		0
Gabo Isl'd	b	73 60		0

Curve showing state of Barometer.





H.C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

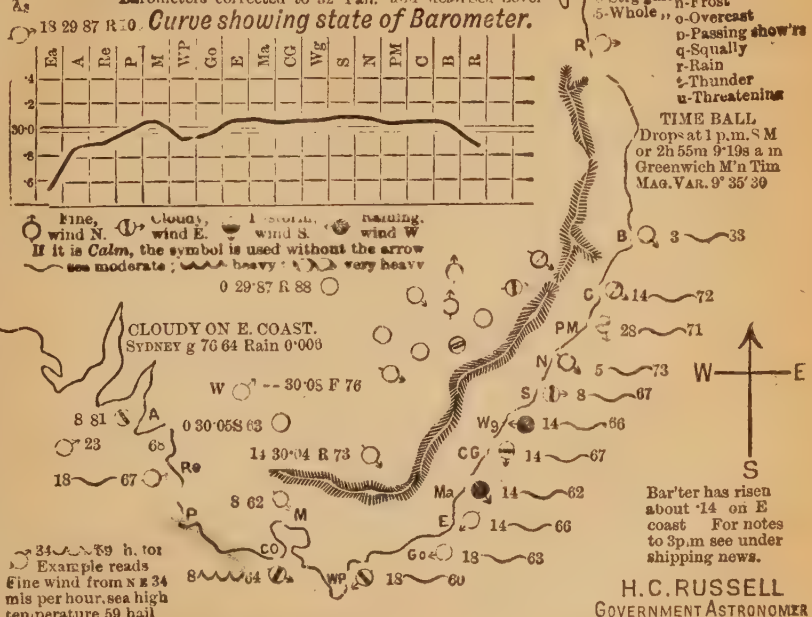
COMPILED from TELEGRAMS for 9 A.M., JANR'Y 18 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·401.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 18 2·388.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	Mn	R'in
Casino..	c	90	69	0
Tenterfild	c	83	46	0
Moree....	b	102	79	0
Grafton..	g	94	70	0
Inverell..	.	..	..	..
Bourke ..	b	104	75	0
Narrabri	b	108	73	0
Armidale	b	84	55	0
Bendem'r	b	91	63	0
Gunned'h	b	106	48	0
Coonam'le	b	99	67	0
Tamworth	b	108	65	0
Coonab rn	b	101	66	0
P.Macqrie	g	77	66	0
Murr'undi	c	89	67	0
Cassilis.	c	103	68	0
Mus'br'ok	b	91	63	0
Dubbo...	b	94	65	0
Mudgee .	g	91	66	0
Maitland.	c	83	64	0
Hill End.	b	87	49	0
Newcastle	b	80	67	0
Orange..	b	88	59	0
Bathurst.	b	93	58	0
Condob'ln	b	78	69	0
Mt Vict'ria	fg	91	56	0·06
Forbes...	b	98	61	0
18 77		E		
Picton	d	85	62	0·07
Wentw'th	b	88	55	0
Young...	b	90	63	0
Wollgo'ng	p	79	61	0·15
Moss Vale	g	76	57	0·04
Euston...	b	88	60	0
Goulburn	g	89	52	0
Wagga...	b	95	60	0
Cape Geo.	g	73	..	0
Queanb'n	b	93	62	0
Deniliq'in	b	9[illegible]	55	0
Moruya..	p	7[illegible]	62	0·05
Kiandra..	c	65	30	0
Albury ..	b	98	54	0
Bodalla.	g	74	59	0
Cooma...		..	..	..
Eden....	b	74	57	0
Gabo Is'd	b	68	58	0



H.C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

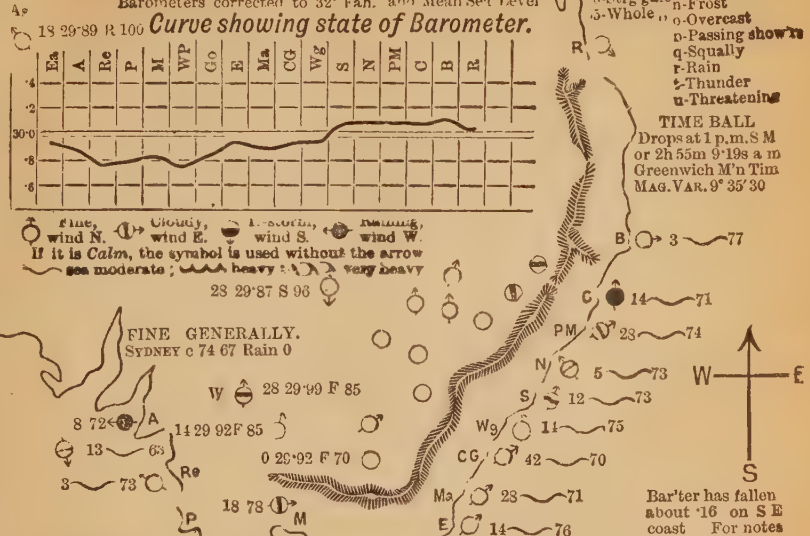
COMPILED from TELEGRAMS for 9 A.M., JANR'Y 19 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 19 2·388.
Barometers corrected to 32° Fah. and Mean Sea Level

	S.	W't	M'x	Mn	R'in
Cas...		c	84 70		0
Tenterfild		c	80 56		0
Moree....		b	98 76		0
Grafton..		c	80 65		0
Inverell..		b	93 60		0
Bourke ..		b	107 76		0
Narrabri		b	105 78		0
Armidale		b	82 60		0
Bendem'r		b	98 61		0
Gunned'h		b	106 62		0
Coonam'le		b	106 73		0
Tamworth		b	109 63		0
Coonab rn		b	102 62		0
P.Macqrie		c	75 69		0
Murr'undi		b	87 65		0
Cassilis..		b	100 65		0
Mus'br'ok		b	86 63		0
Dubbo...		b	94 69		0
Mudgee ..		b	95 63		0
Maitland.		b	80 71		0
Hill End.		b	86 48		0
Newcastle		g	77 64		0
Orange..		b	88 58		0
Bathurst.		b	91 57		0
Condob'ln		b	86 70		0
Mt Vict'ria		b	74 54		0·03
Forbes...		b	101 65		0
8 72			E		
Picton		g	77 63		0·04
Wentw'th		c	100 72		0
Young...		b	89 65		0
Wollgo'ng		b	78 62		0
Moss Vale		b	73 56		0
Euston...		g	105 73		0
Goulburn		b	82 58		0
Wagga...		b	97 64		0
Cape Geo.		b	74 ..		0
Queanb'n		b	94 63		0
Deniliq'in		b	96 60		0
Moruya..		b	78 62		0
Kiandra..		b	74 38		0
Albury..		b	102 59		0
Bodalla..		b	75 55		0
Cooma...		b	88 47		0
Eden....		b	76 62		0
Gabo Is'd		o	76 58		0



H. C. RUSSELL
GOVERNMENT ASTRONOMER

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WEATHER MAP.

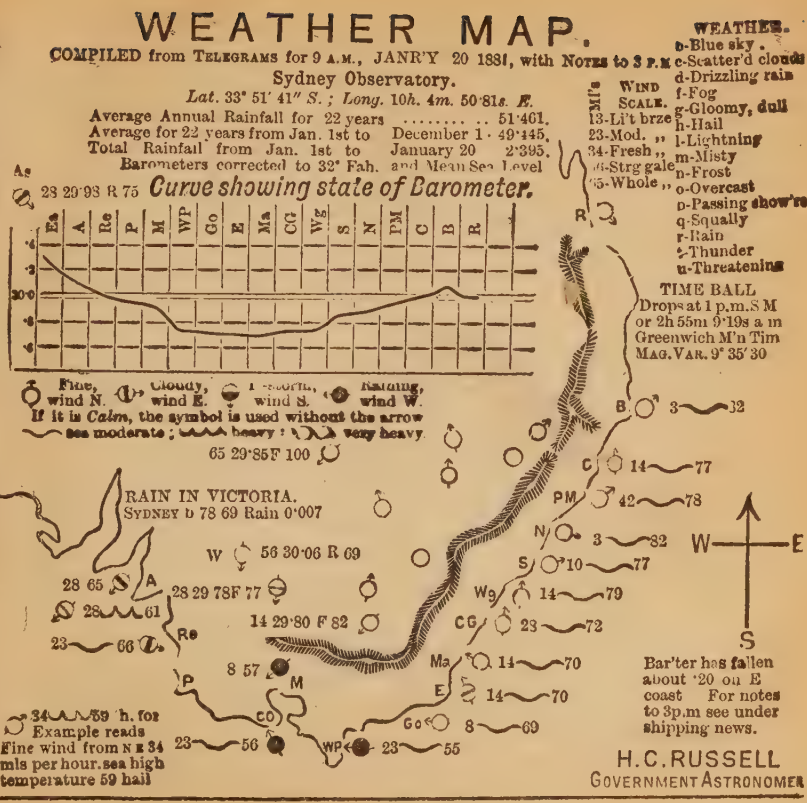
COMPILED from TELEGRAMS for 9 A.M., JANR'Y 20 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 20 2·395.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'X	Mn	R'in
Casino..	b	96	63	0
Tenterfield	b	91	57	0
Moree....	b	96	78	0
Grafton..	b	86	61	0
Inverell..	bc	98	53	0
Bourke ..	b	113	93	0
Narrabri	b	105	81	0
Armidale	b	88	62	0
Bendem'r	b	98	65	0
Gunned'h	b	107	67	0
Coonam'le	b	110	73	0
Tamworth	b	109	67	0
Coonab rn	b	103	72	0
P.Macqrie	m	80	72	0
Murr'undi	b	96	72	0
Cassilis..	b	102	72	0
Mus'br'ok	b	106	70	0
Dubbo...	b	99	83	0
Mudgee..	b	104	72	0
Maitland.	b	90	74	0
Hill End.	b	92	53	0
Newcastle	b	86	68	0
Orange..	b	93	66	0
Bathurst.	bd	90	67	0
Condob'ln	b	90	79	0
MtVict'ria	b	81	71	0
Forbes...	b	116	81	0
13 67		E		
Pictor	b	91	67	0
Wentw'th	b	113	63	0
Young...	b	96	75	0
Wollgo'ng	m	83	65	0
Moss Vale	b	91	70	0
Euston...	b	102	63	0
Goulburn	b	103	63	0
Wagga...	b	105	73	0
Cape Geo.	f	76	..	0
Queanb'n	b	101	70	0
Deniliq'in	g	105	73	0
Moruya..	f	80	66	0
Kiandra..	b	76	30	0
Albury..	m	104	69	0
Bodalla..	b	87	64	0·01
Cooma...	b	101	56	0
Eden....	b	76	68	0
Gabo Isl'd	b	75	66	0



WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 21 1881, with NOTES to 3 P.M.

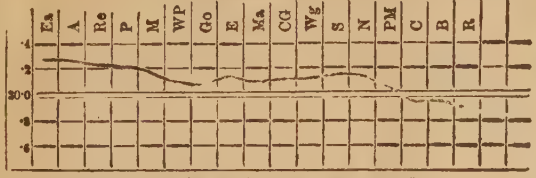
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 21 2·415.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	wt	wx	Mn	Rin
Casino	b	101	71	0
Tenterfield	b	94	1	0
Moree	b	1	80	0
Grafton	g	98	70	0
Inverell	b	101	71	0
Bourke	b	106	76	0
Narrandi	b	108	80	0
Armidale	b	9	62	0
Bendemeer	b	102	69	0
Gunnedah	b	109	69	0
Coonamble	b	1	76	0
Tamworth	b	112	67	0
Coonabarabran	b	104	75	0
P.Macquarie	g	83	69	0
Murrumbidgee	g	102	76	0
Cassilis	c	107	70	0
Mus'br'ok	g	11	65	0
Dubbo	b	105	74	0
Mudgee	g	105	69	0
Maitland	g	105	72	0
Hill End	g	97	54	0·01
Newcastle	g	90	41	0·02
Orange	g	98	6	0·31
Bathurst	g	102	63	0
Condob'lin				
MtVict'ria	d	98	53	0·04
Forbes	b	112	63	0
Picton	o	103	60	0·07
Wentw'th	b	75	53	0
Young	c	104	61	0
Wollgo'ng	g	84	63	0·30
Moss Vale	g	100	54	0·02
Euston	b	104	55	0
Goulburn	g	10	54	0·02
Wagga	g	107	59	0
Cape Geo.	c	86		0·05
Queanb'n	c	104	63	0·04
Deniliq'n	b	100	52	0
Moruya	g	77	59	0·22
Kiandra	b	80	35	1·20
Albury	b	102	51	0
Bodalla	g	90	57	0·27
Cooma	c	100	48	0
Eden	b	75	59	0
Gabo Isl'd	g	69	57	0

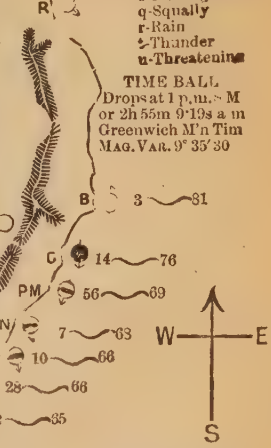
Curve showing state of Barometer.



WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
j-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

MILS WIND SCALE.
1-Lt brze
2-Lt'r brze
3-Mod. „
4-Fresh „
5-Strg gale
6-Whole „

TIME BALL
Drops at 1 p.m. S M or 2h 55m 9·19s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′ 30



Bar'ter has risen about ·40 on S E coast For notes to 3p.m see under shipping news.

H.C.RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 22 1881, with NOTES to 3 P.M.

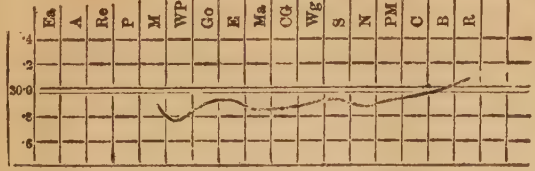
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 22 2·455.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'T	M'X	MN	R'IN
Casino..	b	86	71	0
Penterfild	g	88	53	0
Moree....	g	109	75	1·35
Grafton..	b	85	68	0
Inverell..	p	93	72	0·50
Bourke ..	b	103	77	0
Narrabri	g	113	73	0
Armidale	b	83	60	1·12
Bendem'r	g	105	64	0
Gunned'h	b	109	59	0
Coonam'le	c	107	75	0
Tamworth	c	112	65	0
Coonab rn	g	104	65	0
P.Macqrie	g	73	65	0
Murr'undi	c	83	62	0
Cassilis..	c	83	65	0
Mus'br'ok	b	81	61	0
Dubbo...	g	93	68	0
Mudgee .	g	88	63	0
Maitland.	c	79	69	0
Hill End.	g	80	51	0
Newcastle	c	87	41	0
Orange..	b	84	52	0
Bathurst.	b	81	59	0
Condob'lin	.	..	..	..
MtVict'ria	b	65	53	0·07
Forbes...	b	100	59	0
		E.		
Picton	b	72	63	0
Wentw'th	b	83	53	0
Young...	b	87	62	0
Wollgo'ng	b	73	62	0·04
Moss Vale	b	69	55	0
Euston...	b	85	58	0
Goulburn	b	70	54	0
Wagga...	o	90	61	0
Cape Geo.	b	71	..	0
Queanb'n	b	82	59	0
Deniliq'in	b	86	53	0
Moruya..	b	75	61	0
Kiandra..	b	84	33	0
Albury..	b	95	49	0
Bodella..	b	73	56	0
Cooma...	b	84	47	0
Eden....	b	76	58	0
Gabo Isl'd	b	70	58	0

Curve showing state of Barometer.



Fine, wind N — Cloudy, wind E. — Thunderstorm, wind S. — Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate; heavy; very heavy

14 29·92 F 84

RAIN ON S. COAST
SYDNEY g 69 63 Rain 0·040

28 30·21 F 64

28 30·04 S 65

28 30·00 F 70

13 69

34 59 h. for Example reads Fine wind from N E 34 mls per hour, sea high temperature 59 hail

40 58 WP 34 61

Go 23 64

E 14 76

Ma 14 71

CG 42 71

Wg 14 74

S 0 68

N 4 74

PM 14 72

C 14 71

B 3 84

R

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q Squally
r-Rain
t-Thunder
u-Threatening

MI's WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
55-Whole ,,

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30′

W — E
S

Bar'ter has fallen about ·25 on E coast For notes to 3p.m see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 24 1881, with NOTES to 3 P.M.

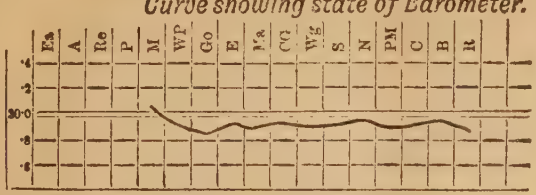
Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 24 2·558.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	Mn	R'in
Casino..	c	93	67	0
Tenterfild.	b	95	58	0·25
Moree....	b	83	72	0
Grafton..	b	90	67	0·17
Inverell..	b	88	65	0·83
Bourke ..	b	103	71	0
Narrabri	b	96	72	0
Armidale	b	88	58	·37
Bendem'r	b	93	71	14
Gunned'h	b	102	57	0
Coonam'le	b	105	70	0
Tamworth	b	97	55	0·17
Coonab rn	b	100	61	0
P.Macqrie	b	77	66	0·31
Murr'undi	b	91	68	0
Cassilis..	b	92	66	0
Mus'br'ok	b	87	65	0
Dubbo...	b	92	69	0
Mudgee .	b	96	65	0
Maitland.	c	85	69	0·06
Hill End.	b	82	59	0
Newcastle	b	90	65	0·03
Orange..	b	85	60	0
Bathurst.	b	89	58	0
Condob'in	.	..	..	.
MtViet'ria	b	62	51	0·12
Forbes...	b	94	66	0
Picton	g	74	64	0·13
Wentw'th	g	88	58	0
Young...	b	88	60	0
Wollgo'ng	g	73	64	0 13
Moss Vale	b	68	59	0·02
Euston...	b	83	60	0
Goulburn	b	87	57	0
Wagga...	n	91	65	0
Cape Geo.	p	69	..	0
Queanb'n	b	91	58	0
Deniliq'in	b	87	56	0
Moruya..	g	71	64	0·09
Kiandra..	b	80	33	0
Albury..	b	94	49	0
Bodalla..	b	72	60	0·20
Cooma...	b	83	55	0
Eden....	b	71	63	0
Gabo Isl'd	g	74	61	0

Curve showing state of Barometer.

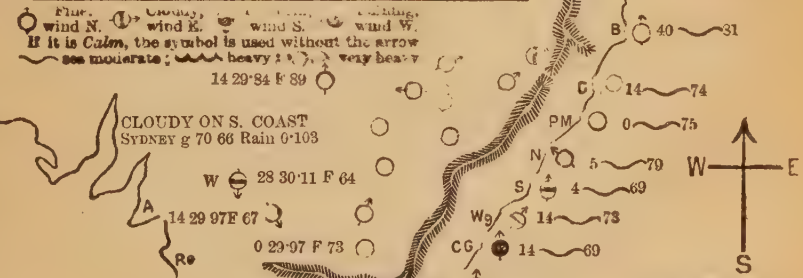


Fine. Cloudy, Fog, Drizzling, wind N. wind E. wind S. wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

WIND SCALE.
1-Light breze
2-Mod. „
3-Fresh „
4-Strg gale
5-Whole „

WEATHER.
a-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a.m.
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″



Bar'ter has fallen about ·10 inland
For notes to 3p.m see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 25 1881, with NOTES to 3 P.M.

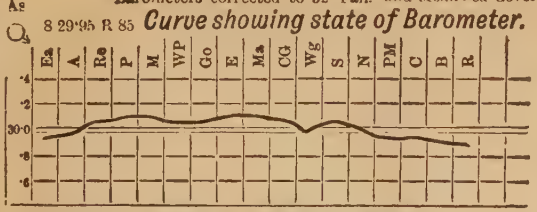
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 25 2·607.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	Mn	R'in
Casino..	b	96	69	0
Tenterfild	b	85	56	0
Moree....	g	91	74	0
Grafton..	b	93	72	0
Inverell..	q	87	47	0·47
Bourke ..	b	105	72	0
Narrabri	g	100	70	0·27
Armidale	g	78	59	0·39
Bendem'r	r	89	62	0 50
Gunned'h	g	100	58	0·25
Coonam'le	.	..	..	..
Tamworth	q	98	60	0
Coonab rn	g	96	63	0·22
P.Macqrie	c	80	69	0·03
Murr'undi	g	88	68	0·29
Cassilis..	g	94	63	0
Mus'br'ok	g	97	69	0·02
Dubbo...	b	94	73	0·39
Mudgee..	b	94	66	0
Maitland.	g	90	73	0
Hill End.	b	85	61	0
Newcastle	c	88	69	0
Orange..	b	87	60	0·28
Bathurst.	b	89	60	1·54
Condob'lin	.	..	..	.
MtVict'ria	r	75	56	0·94
Forbes...	b	106	69	0
0 67		E		
Pictor	g	86	64	0
Wentw'th	b	87	59	0
Young...	b	90	65	0
Wollgo'ng	g	81	64	0 18
Moss Vale	d	79	58	1·12
Euston...	b	83	58	0
Goulburn	g	91	57	0 15
Wagga...	o	96	70	0
Cape Geo.	c	74	..	0·07
Queanb'n	b	90	63	0
Deniliq in	b	90	54	0
Moruya..	g	77	60	0·68
Kiandra..	b	84	43	0
Albury .	b	98	1	0
Bodalla.	o	83	58	0 22
Cooma..	c	83	54	0·[illegible]
Eden....	g	7[illegible]	59	[illegible]
Gabo Is'd	g	66	60	0·01

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. [illegible], wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JANUARY 26.

Western Australia: Fine generally, strong, S.S.W. breeze at Perth. South Australia: Fine throughout, with variable wind, barometers having fallen slightly, moderate sea at Cape Borda. Victoria: Cloudy at Wilson's Promontory, dense fog up to 9 a.m. at Cape Otway, N.E. breeze at Melbourne and Wilson's Promontory and S.E. at Cape Otway, slight sea at Wilson's Promontory; the barometers show a slight fall. New South Wales: Cloudy generally, prevailing wind N.E. to S.E., and light; 21 stations show rain to have fallen at 9 a.m., the heaviest being to the N. of colony, viz.:—1·25 inches at Clarence River, and 1·15 at Tenterfield, thunderstorm and raining lightly at Coonamble, raining at Bodalla, and showery at Moruya Heads; smooth sea along E. coast. Queensland: Brisbane, 29·94, S.E., 34, temperature 83°; fine, sea smooth at Cape Moreton, E.; Cooktown, E.S.E., 13, temperature 87°; no rain, sultry. 3 p.m. Observations.—Sydney, S.E., 14, fine, clear. State of Rivers.—Murrumbidgee: At Wagga, 2 inches above summer level; at Balranald, summer level. Murray: At Albury, 11 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 26 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s. E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 - 49·445.
Total Rainfall from Jan. 1st to January 26 2·653.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	M'x	Mn	R'in
Casino..	g	98	68	0·36
Tenterfild.	r	81	56	1·15
Moree....	g	91	70	0·42
Grafton..	b	95	68	0·80
Inverell..	g	97	75	0·54
Bourke ..	b	105	73	0
Narrabri	g	88	66	0·15
Armidale	g	77	57	0·09
Bendem'r	g	89	62	0 41
Gunned'h	.	..	..	..
Coonam'le	g	99	62	0·09
Tamworth	o	96	61	0
Coonab rn	b	92	56	0·09
P.Macqrie	g	79	66	0·30
Murr'undi	b	79	67	0
Cassilis..	g	91	55	0
Mus'br'ok	b	88	63	0
Dubbo...	b	89	66	0·46
Mudgee..	b	86	64	0
Maitland.	g	80	70	0
Hill End.	b	83	56	0
Newcastle	g	78	64	0
Orange..	b	80	52	0
Bathurst.	b	74	57	0
Condob'ln	.	..	..	..
MtVict'ria	g	62	54	0·04
Forbes...	.	..	..	..
13 74		E		
Pictor	o	78	63	0·02
Wentw'th	b	95	60	0
Young...	b	..	..	0
Wollgo'ng	o	76	64	0 03
Moss Vale	g	66	56	0·03
Euston...	o	98	63	0
Goulburn	b	70	57	0
Wagga...	b	93	56	0
Cape Geo.	g	72	..	0·03
Queanb'n	b	85	58	0
Deniliq'in	b	92	65	0
Moruya..	o	72	60	0·06
Kiandra..	b	80	30	0·70
Albury..	b	101	59	0
Bodalla.	r	74	55	0·02
Cooma...	b	79	47	0
Eden....	o	73	60	0
Gabo Isl'd	b	77	62	0

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JANUARY 27.

South Australia: Cloudy weather prevails on south coast, with strong southerly winds, rising barometers, and rough sea; no rain. Victoria: No telegrams. New South Wales: Fine at majority of stations, cloudy at Sydney, and N.W. on the inland slopes of mountains about Dubbo, Mudgee, and Cassilis; smooth sea, fresh N.E. winds, and rising barometers on coast; heavy sea at Eden and Gabo Island; for rainfall see weather map. Queensland: Fine with fresh S. wind, rising barometers, moderate sea; rain at Brisbane, 0·100. Victoria: No telegrams. New South Wales: Deniliquin, N.W., storm coming up, temperature 92°; Goulburn, N.W., fine, temperature 78°; Forbes, N., cloudy, temperature 94°; Eden, N., 28, fine, heavy sea, 75°; Cape George, N.E., 42, threatening, moderate sea, temperature 73°; Sydney, N.E., 12, dull, smooth sea, temperature 73.; Newcastle, N.E., cloudy, smooth sea; Port Macquarie, N.E., 56, fine, smooth sea, temperature 79°. State of Rivers.—Murrumbidgee: At Wagga, 2 inches below summer level. Murray; At Albury, 11 inches above summer level.

WEATHER MAP.

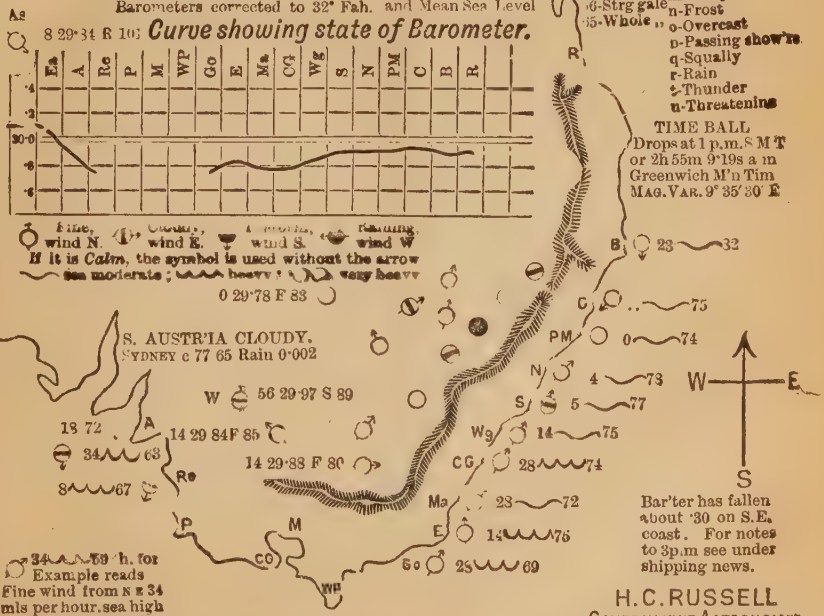
COMPILED from TELEGRAMS for 9 A.M., JANR'Y 27 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 27 2·655.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	wt	M'x	Mn	R'in
Casino..	c	83 69	0·46	
Tenterfild	b	76 56	0	
Moree....	b	88 72	0	
Grafton..	b	82 68	0·08	
Inverell..	b	85 79	0	
Bourke ..	b	96 77	0	
Narrabri	b	99 71	0	
Armidale	b	70 58	0	
Bendem'r	b	86 60	0·03	
Gunned'h	c	92 62	0	
Coonam'le	.	...	..	
Tamworth	b	99 62	0	
Coonab rn	b	93 65	0·01	
P.Macqrie	b	77 65	0	
Murr'undi	b	84 65	0	
Cassilis..	g	93 65	0	
Mus'br'ok	b	93 63	0	
Dubbo...	r	85 70	0·06	
Mudgee..	g	90 61	0	
Maitland.	b	85 68	0	
Hill End.	b	84 54	0	
Newcastle	b	86 69	0	
Orange..	b	82 59	0	
Bathurst.	b	82 60	0	
Condob'ln	b	80 71	0	
MtViet'ria	c	81 54	0	
Forbes. .	b	98 59	0	
13 69		E		
Pictor	g	84 55	0	
Wentw'th	g	104 73	0	
Young...	b	86 67	0	
Wollgo'ng	b	81 60	0	
Moss Vale	o	73 58	0	
Euston...	b	105 73	0	
Goulburn	b	83 55	0	
Wagga...	b	92 60	0	
Cape Geo.	b	74 ..	0	
Queanb'n	b	89 65	0	
Deniliq'in	b	92 64	0	
Moruya..	b	74 61	0	
Kiandra..	b	84 39	0	
Albury..	b	99 61	0	
Bodalla..	b	81 55	0·18	
Cooma...	b	79 65	0	
Eden....	b	78 64	0·25	
Gabo Isl'd	o	75 65	0·02	



H. C. RUSSELL
GOVERNMENT ASTRONOMER.

METEOROLOGICAL REPORTS.—JANUARY 28.

Western Australia and South Australia: No telegrams. Victoria reports fine weather on coast, especially in W. of colony, wind fresh from W., sea smooth, barometers rising; rain, Melbourne, 0·230; Portland, 0·540; Wilson's Promontory, 0·170. New South Wales: Cloudy on coast; showery at Moruya, fine inland in the Darling and Riverina districts, smooth sea on coast N. of Cape St. George, with light N. winds; sea rough S. of there with wind from S.; barometers falling; for rainfall see weather map; thunderstorm at Forbes last night, rain 0·72. Queensland: Fine, with light S.E. wind, rising barometer, and moderate sea. 3 p.m. Observations.—Victoria: Barometers steady. Melbourne, S., 13, fine, temperature 70·; Portland, W., 18, cloudy, moderate sea, temperature ·68; Cape Otway, W., 8, fine, moderate sea, temperature 74·; Wilson's Promontory, W.S.W., 34, fine, smooth sea, temperature 68·. New South Wales: Wentworth, S., fine, temperature 78; Goulburn, S.E., showery, temperature 71·; Eden, S.W., 28, dull, heavy sea, temperature ·70; Cape St. George, S., 14, showery, moderate sea, temperature 70·; Sydney, S.S.W., 8, dull, slight thunderstorm passing over, smooth sea, temperature 74·; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., 42, sultry, moderate sea, temperature 80·; Clarence River, E.N.E., 14, fine, smooth sea, temperature 82·. State of Rivers: Murrumbidgee: At Wagga, 3 inches below summer level; Murray: At Albury, 1 foot above summer level. Darling: At Wentworth, 3 feet 7 inches above summer level; at Menindie, 3 feet 2 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 28 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 28 2·656.
Barometers corrected to 32° Fah. and Mean Sea Level

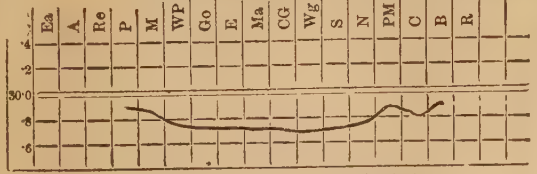
Stations.	w't	M'x	Mn	R'in
Casino..	b	94	66	0
Genterfild	b	85	57	0
Goree....	b	91	76	0
Grafton..	b	91	71	0
Inverell..	b	84	50	0
Bourke ..	b	106	70	0
Narrabri	b	99	74	0
Armidale	b	78	54	0
Bendem'r	b	89	61	0
Gunned'h	b	101	62	0·63
Goonam'le	c	101	72	0
Tamworth	o	104	65	0
Goonab rn	g	90	63	0·42
P. Macqrie	c	82	71	0
Murr undi	b	84	70	0
Cassilis..	g	100	66	0·23
Mus'br'ok	b	97	66	0
Dubbo...	b	84	69	0·73
Mudgee .	b	92	63	0
Maitland.	b	91	73	0
Hill End .	t	85	55	0·70
Newcastle	b	82	70	0
Orange .	tr	84	62	0·43
Bathurst.	g	87	63	0·14
Coudob'lin	.	78	..	0·06
Mt Vict'ria	r	79	60	0·39
Forbes. .	.	106	64	0·72
		E.		
Picton	c	85	70	0
Wentw'th		..	..	..
Young....	.	..	..	..
Wollongong	fg	82	68	0
Moss Vale	b	81	62	0
Euston...	b	105	72	0
Goulburn	c	93	60	0·06
Wagga...	g	89	64	0·63
Cape Geo.	g	88	..	0
Queanb'n	p	94	64	1·08
Deniliq in	b	101	56	0·32
Moruya..	p	77	60	0·03
Kiandra...	r	8	63	0·70
Albury .	g	100	64	0·18
Bodalla..	r	85	41	0·22
Cooma...	t	91	59	0·04
Eden....	g	78	64	0.05
Cabo Is.'d	g	74	62	0·08

WIND SCALE.
1-Li't brze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

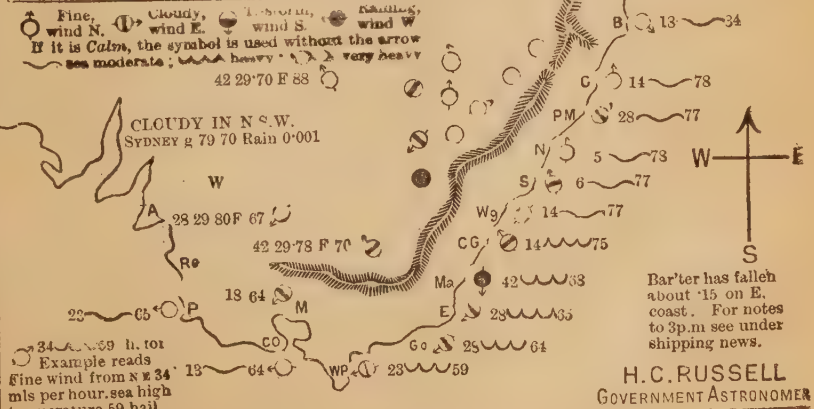
WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Thunder, wind S. Raining, wind W
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy



Bar'ter has fallen about ·15 on E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORT—JANUARY 29.

South Australia: Light southerly winds and fine weather; Alice Springs, cloudy, with S.E. wind, no rain; Port Darwin, N.E., 18, cloudy, rain 0·14. Victoria: Fine weather round coast, with fresh W. and N.W. winds, falling barometers, and smooth sea; no rainfall. New South Wales: Fine inland, with light variable winds and calms, cloudy on coast, winds fresh from N. and S., sea smooth, barometers falling; for rainfall see weather map. Queensland: Cape Moreton, N.E. wind and moderate swell. 3 p.m. Observations.—Victoria, barometers falling; Portland, W.N.W. 48, squally, smooth sea, temperature 59°; Cape Otway, N.W., 18, cloudy, smooth sea, temperature 70°; Wilson's Promontory, gloomy, threatening in west, smooth sea, temperature 70°; New South Wales: Wentworth, S.W., fine, temperature 78°; Deniliquin, S.W., fine, temperature 88°; Albury, S.W., moderate wind, fine, temperature 80°; Goulburn, E.N.E., fine, temperature 73°; Forbes, calm, fine, temperature 98°; Eden, N.E., 20, fine, sea moderate, temperature 72°; Moruya, N.E., 20, fine, moderate sea, temperature 72°; Cape George, E.N.E., 10, fine, sea smooth, temperature 71°; Sydney, E., 14, fine, clear, sea smooth, temperature 73°; Newcastle, S.S.E., fine, sea smooth; Grafton, N.E., fine. State of Rivers.—Murrumbidgee: At Wagga, 3 inches below summer level. Murray: 1 foot above summer level. Darling: At Wentworth, 3 feet 6 inches above summer level; Pooncarie, summer level; Menindie, 3 feet 1 inch above summer level; Wilcannia, 6 inches below summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JANR'Y 29 1881, with NOTES to 3 P.M.

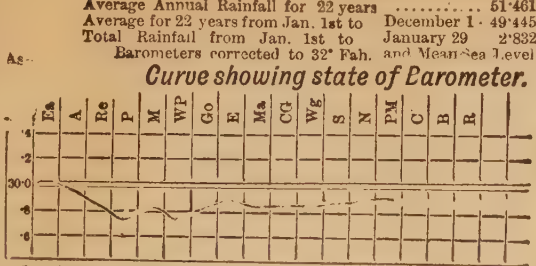
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

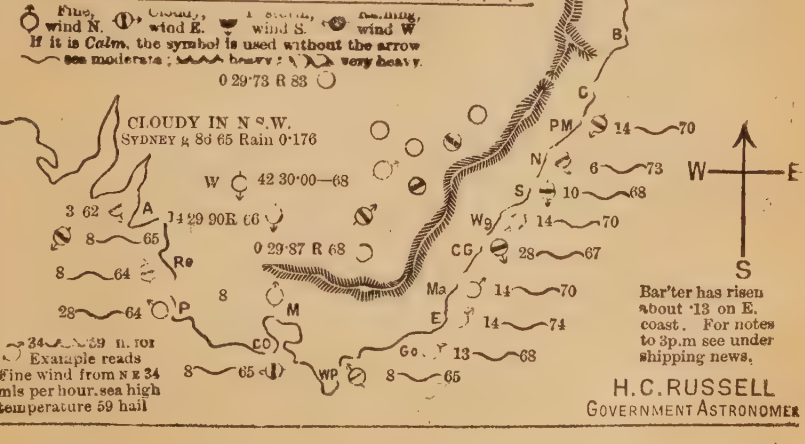
Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 · 49·445.
Total Rainfall from Jan. 1st to January 29 2·832.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	w't	M'x	Mn	R'fn
Casino..	b	..	..	0
Tenterfild	.	..	..	..
Moree....	.	..		..
Grafton..	b	92	70	0
Inverell..	b	86	60	0·74
Bourke ..	b	106	71	0
Narrabri	.	..		..
Armidale	b	85	60	1·85
Bendem'r	o	92	62	0·22
Gunned'h	.	..	..	.
Coonam'le	.		..	..
Tamworth	b	103	58	0 98
Coonab rn	.	..		..
P.Macqrie	c	83	67	1·62
Murr'undi		..	..	..
Cassilis..	.	..	..	.
Mus'br'ok	c	105	61	0
Dubbo...	b	89	64	0
Mudgee .	g	91	60	1.02
Maitland.	g	92	57	0·55
Hill End.	b	80	51	0·90
Newcastle	g	88	66	0·21
Orange..	b	72	57	1·21
Bathurst.	b	68	55	0 64
Condob'lin	b	75	66	0
Mt Vict'ria	c	67	56	0·77
Forbes. ..	b	102	61	0
		E		
Picton	g	85	62	0·50
Wentw'th	b	83	55	0
Young...	b	80	64	0
Wollgo'ng	g	79	63	0·35
Moss Vale	g	69	54	0·37
Euston...	b	65	56	0
Goulburn	g	76	55	0·41
Wagga...	b	84	58	0
Cape Geo.	g	72	..	0·41
Queanb'n	c	84	60	0·08
Deniliq'in	b	82	51	0
Moruya..	b	72	60	0·35
Kiandra..	b	62	15	0·25
Albury .	b	90	51	0
Bodalla.	b	73	57	0·26
Cooma...	c	72	53	0.63
Eden....	b	74	58	0
Gabo Is'd	b	72	67	0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy.



WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
M'ls
13-Li't brze
23-Mod. „
34-Fresh „
6-Strg gale
5-Whole „

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Bar'ter has risen about ·13 on E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JANUARY 31.

South Australia: Reports fine clear weather, wind light from W., barometers rising, sea slight; rain N., at Port Darwin 0·990; fine inland. Victoria: cloudy on coast; showery at Otway; sea rough, wind fresh and variable, barometers rising; rain at Cape Otway, 0·350; Wilson's, 0·690. New South Wales: Fine in majority of stations, especially inland, cloudy on coast between Port Macquarie and Jervis Bay, sea smooth, wind from E., S.E., and N.E; rain slight, see weather map. Queensland: Fine light S.E. wind, rising barometers, moderate sea. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S., 13, fine, temperature 75°; Cape Otway, N.W., cloudy, moderate sea, temperature 69°; Portland, W., 23, cloudy, squally, moderate sea, temperature 65°; Wilson's Promontory, W., 28, cloudy, smooth sea, 69°. New South Wales: Deniliquin, S., fine, temperature, 86°; Albury, W., fine, temperature 79°; Goulburn, calm, fine, temperature 77°; Forbes, calm, fine, temperature 96°; Moruya, N.E., 42, fine, rough, temperature 73°; Cape George, N.E., 42, moderate, temperature 72°; Sydney, E.N.E., 28, fine, smooth, temperature 72°; Newcastle, S.S.E., fine, smooth; Port Macquarie, S., 42, cloudy, moderate, temperature 76°; Clarence River, S., 14, fine, moderate, temperature 82°. State of Rivers.—Murrumbidgee: At Wagga, 4 inches above summer level. Murray: At Albury, 1 foot above summer level. Darling: At Wentworth, 3 feet above summer level; at Pooncarie, summer level; at Menindi, 3 feet above summer level; at Wilcannia, 6 inches below summer level.

WEATHER MAP.

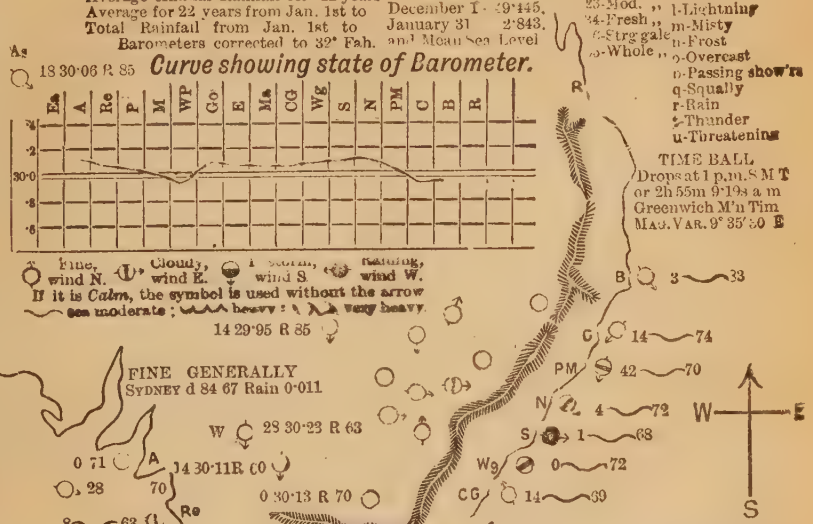
COMPILED from TELEGRAMS for 9 A.M., JAN'Y 31 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to December 1 29·445.
Total Rainfall from Jan. 1st to January 31 2·843.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	M'n	R'in
Casino..	b	102 65	0	0·16
Tenterfild.	b	89 56	0	0·34
Moree....	h	95 76	0	
Grafton..	h	82 68	0	0·08
Invereil..	b	86 62	0	
Bourke ..	b	101 70	0	
Narrabri	b	100 74	0	
Armidale	b	84 62	0	
Bendem'r	b	91 62	0	0·11
Gunned'h	b	94 60	0	0·04
Coonamble	o	98 68	0	
Tamworth	b	95 60	0	0·11
Coonab'rn	b	93 55	0	0·36
P.Macqrie	c	93 70	0	
Murr'undi	g	84 63	0	
Cossilis..	g	97 65	0	
Mus'br'ok	g	92 63	0	0·12
Dubbo...	b	88 69	0	
Mudgee..	g	91 64	0	
Maitland.	g	92 69	0	
Hill End.	b	83 60	0	
Newcastle	g	96 65	0	
Orange..	b	80 56	0	
Bathurst.	b	86 56	0	
Condob'ln	b	75 66	0	
MtVict'ria	c	85 56	0	0·02
Forbes...	b	92 58	0	
		E		
Pictor	o	91 65	0	
Wentw'th	b	81 58	0	
Young...	b	86 60	0	
Wollgo'ng	c	80 64	0	
Moss Vale	g	85 57	0	
Euston...	b	86 55	0	
Goulburn	b	86 53	0	
Wagga...	b	88 55	0	
Cape Geo.	b	93 ..	0	
Queanb'n	o	86 57	0	
Deniliq'in	b	92 57	0	
Moruya..	b	79 63	0	
Kiandra..	b	68 31	0	
Albury..	b	91 48	0	
Bodalla.	c	85 58	0	
Cooma...	b	83 47	0	
Eden....	b	76 59	0	
Gabo Isl'd	b	67 55	0	



H.C. RUSSELL.
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 1.

South Australia: Cloudy on S. coast, fine inland; sea smooth, rometers steady, wind fresh from W. and S.W., no rain. Victoria: Fine in east of colony, cloudy westward; barometers eady, sea rough, wind fresh from S. and W.; rain at Portland, 010. New South Wales: Fine and clear inland and on mountains, cloudy on coast north of Wollongong, but no rain nor wind; nooth sea on coast except at Cape George, where it is heavy, ith a strong N.E. wind; barometers fallen since yesterday. ueensland: Showery, E.S.E. wind at Rockhampton; Brisbane, e, light S.E. wind, rising barometers, and heavy sea. 3 p.m. bservations.—Victoria: Barometers steady; Melbourne, S., 18, oudy, temperature 74°; Portland, S.S.W., 28, fine, smooth sea, mperature 73°; Cape Otway, W., 8, cloudy, rough sea, temperature 68°; Wilson's Promontory, W.S.W., 18, cloudy, smooth sea, mperature 66°. New South Wales: Wentworth, E., fine, temrature 82°; Deniliquin, S., fine, temperature 89°; Albury, calm, e, temperature 84°; Goulburn, W., fine, temperature 82°; rbes, calm, fine, temperature 90°; Moruya, N.E., 56, fine, rough , temperature 75°; Cape George, N.E., 42, fine, heavy sea, nperature 73°; Sydney, E.N.E., 12, fine, smooth sea, temperare 76°; Newcastle, N.E., fine, moderate sea; Port Macquarie, E., 42, fine, smooth sea, temperature 75°; Clarence River, S.E., fine, moderate sea, temperature 82°. State of Rivers.— rrumbidgee, at Wagga, 4 inches below summer level; Murray, Albury, 1 foot above summer level; Darling, at Wentworth, 3 above summer level; at Pooncarie, summer level; at Men-, 3 feet above summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 1 1881, with NOTES to 3 P.M.

Sydney Observatory.

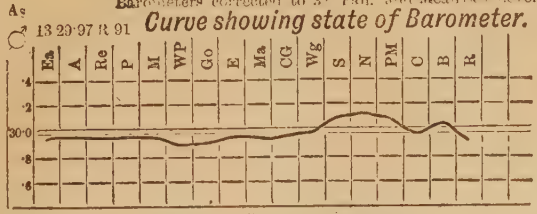
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to January 31.. ·3·478.
Total Rainfall from Jan. 1st to February 1 2·843
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	m'x	m'n	r'in
Casino..	c	90.71	0·28	
Tenterfild	g	82 55	0	
Moree....	b	100 78	0	
Grafton...	c	88 63	0	
Inverell..	b	89 63	0	
Bourke ..	b	104 72	0	
Narrabri	b	108 76	0	
Armidale	b	82 61	0	
Bendem'r	b	92 62	0	
Gunned'h	.	..	..	
Coonamble	c	103 76	0	
Tamworth	b	100 60	0	
Coonab rn	b	98 62	0	
P.Macqrie	c	75 68	0	
Murr'undi	b	84 66	0	
Cassilis..	b	82 62	0	
Mus'br'ok	b	83 64	0	
Dubbo...	b	90 70	0	
Mudgee..	b	93 64	0	
Maitland.	f	81 60	0	
Hill End.	b	88 51	0	
Newcastle	g	95 66	0	
Orange..	b	84 59	0	
Bathurst.	b	89 58	0	
Condob'lin	b	78 69	0	
MtVict'ria	b	89 55	0	
Forbes. .	b	98 59	0	
13 70		E		
Picton	b	88 59	0	
Wentw'th	b	100 59	0	
Young...	b	86 62	0	
Woilgo'ng	c	80 62	0	
Moss Vale	b	77 61	0	
Euston...	b	96 55	0	
Goulburn	b	91 55	0	
Wagga...	b	89 56	0	
Cape Geo.	b	74 ..	0	
Queanb'n	b	94 62	0	
Deniliq'in	b	90 51	0	
Moruya..	b	75 59	0	
Kiandra..	b	72 36	0	
Albury..	b	95 51	0	
Bodalla.	b	81 55	0	
Cooma...	b	90 50	0	
Eden....	b	76 65	0	
Gabo Isl'd	b	75 65	0	

As 13 29·97 R 91

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T'ns'rm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

28 29·90 F 92

FINE GENERALLY
SYDNEY c 74 65 Rain 0·0

W 14 30·06 F 79

8 75 A

0 30·13R 74

8 65

0 30·03 F 72

8 67 Re

8 66 M

22 65 P

34 59 n. 101
Example reads fine wind from N E 34 mls per hour, sea high temperature 59 hail

13 67 CO

WP 13 34

Go 13 71

E 23 75

Ma 23 71

CG 42 71

Wg 23 77

S 0 71

N 0 74

PM 0 74

C 14 70

B. 8 81

R

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE. Mls
12-Li't brze
23-Mod. „
34-Fresh „
...-Stng gale
...-Whole „

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m Greenwich M'n Tim
MAG. VAR. 9° 35′·0 E

W E S

Bar'ter has fallen about ·08 on E. coast. For notes to 3p.m see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—February 9.

Western Australia: Perth, fine, with light cool E.S.E. breeze; barometer 30·19, temperature 88°; Albany, cloudy, wind E., 13, sea rather rough; barometer 30·35, temperature 64°; rain, 12·87 inches reported—probably an error for 0·870. South Australia: Cloudy, fresh S.E. winds, smooth sea on coast; barometers rising, raining at Adelaide; rain, at Robe 0·030, Adelaide 0·010. Victoria: Cloudy round coast; light variable winds, moderately rough sea, and steady barometers prevail round coast; light rain falling at Portland—measured 0·110. New South Wales: Fine and clear inland, cloudy on coast; light showers falling at Port Macquarie—for rainfall see weather map; sea smooth, wind light from N. and N.E.; barometers falling on coast. Queensland: Fine at Brisbane, heavy sea, fresh E. breeze; showery at Cooktown. 4 p.m. Observations.—Victoria: Barometers rising; Melbourne, S., 18, cloudy, temperature 67°; Cape Otway, S.E., 8, gloomy, moderate sea, temperature 68°; Portland, S.S.E., 34, heavy rain, smooth sea, temperature 58°; Wilson's Promontory, S.W., 8, dense fog, temperature 63°. New South Wales: Wentworth, S.W., 28, fine, hot, temperature 85°; Deniliquin, N., fine, temperature 96; Albury, S., cloudy, temperature 87°; Goulburn, S., stormy, temperature 74°; Forbes, calm, cloudy, temperature 102°; Eden, N.E., 14, thunderstorm, sea moderate, temperature 73°; Moruya, N.E., 30, cloudy, thunderstorm, rough sea, temperature 77°; Cape George, N.E., 42, thunderstorm, sea moderate, temperature 74°; Sydney, N.E., 12, cloudy, little sea, temperature 77°; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., 12, fine, moderate sea, temperature 79; Clarence River, E., 14, cloudy, moderate sea, temperature 80°. State of Rivers.—Murrumbidgee: at Wagga, 4 inches below summer level; Murray: at Albury, 1 foot above summer level; Darling: at Wentworth, 3 feet above summer level; at Pooncarie, summer level; at Menindi, 3 feet above summer level; at Wilcannia, 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 2 1881, with NOTES to 3 P.M.

Sydney Observatory.

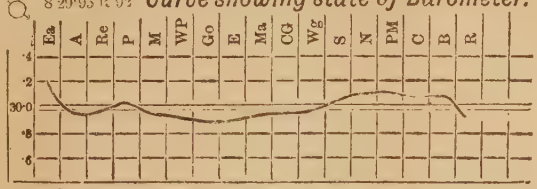
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to January 31. 2·178.
Total Rainfall from Jan. 1st to February 2 2·843
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	wt	M'x	Mn	R'in
Casino..	b	91 66	0·14	
Tenterfild	g	82 55	0	
Morse....	b	96 76	0	
Grafton..	b	88 66	0	
Inverell..	h	81 63	0	
Bourke ..	c	105 76	0	
Narrabri	g	101 74	0·1	
Armidale	b	84 65	0	
Bendem'r	b	91 65	0	
Gunned'h	b	103 67	0·02	
Coonam'le	b	104 76	0	
Tamworth	b	106 66	0	
Coonab rn	c	98 68	0	
P.Macqrie	p	80 78	0	
Murr'undi	b	91 68	0	
Cassilis..	b	82 62	0	
Mus'br'ok	b	85 67	0	
Dubbo...	b	97 79	0	
Mudgee .	b	98 71	0	
Maitland.	b	89 72	0	
Hill End.	b	85 59	0	
Newcastle	b	90 70	0	
Orange..	b	89 67	0	
Bathurst.	b	95 68	0	
Condob'ln	b	86 74	0	
Mt Vict'ria	b	88 64	0·96	
Forbes. .	b	101 61	0	
18 67		E		
Picton	f	91 70	0	
Wentw'th	c	98 65	0	
Young...	h	93 76	0	
Woilgo'ng	c	87 69	0	
Moss Vale	c	84 67	0	
Euston...	b	100 67	0	
Goulburn	b	97 68	0·24	
Wagga...	g	99 75	0	
Cape Geo.	f	74 ..	0	
Queanb'n	n	99 68	0	
Deniliq'n	b	100 59	0	
Moruya..	g	77 69	0	
Kiandra..	b	84 36	0	
Albury ..	g	101 62	0	
Bodalla.	c	84 68	0	
Cooma...	b	94 60	0	
Eden....	g	77 69	0	
Gabo Is'd	gf	77 65	0	

As 8 29·95 R 92

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. wind S wind W
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

28 29·90 S 98

CLOUDY ON COAST
SYDNEY g 79 72 Rain 0·0

W 28 29·93 F 80

0 65 A 0 30·14 R 79

23 60 Re

0 29·99 F 75

8 61

8 67 M

29 60 P

CO

34 59 h.or
Example reads
Fine wind from N E 34
mls per hour, sea high
temperature 59 hail

13 63

WP 23 34

Go 18 60

E 14 72

Ma 23 73

CG 42 71

S 5 76

Wg 14 78

N 5 30

PM 42 73

C 14 79

B 23 81

R

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Th under
u-Threatening

WIND SCALE. mls
13-Lt brze
23-Mod. "
34-Fresh "
Strg gale
Whole "

TIME BALL
Drops at 1 p.m. = M T or 2h 55m 9·19s a m Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W E S

Bar'ter has risen about ·08 on S. W. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—February 3.

South Australia reports cloudy weather all along S. coast, also inland at Alice Springs, but fine N. at Port Darwin. The barometers have risen about 0·060 since yesterday, and fresh S and S.E. winds and smooth sea are reported from seaports. Rain—Robe, 0·010; Port Darwin, 0·100. Victoria: Cloudy weather reported from all stations; raining at Melbourne and Cape Otway; wind on coast fresh from S.; barometers rising, sea moderate. Rain measurements—Wilson's Promontory, 0·030; Cape Otway, 0·090; Portland, 0·54, New South Wales: Fine on coast S. of Sydney; cloudy weather, however, prevails on the range and westward as far as Orange, Dubbo, Young, Forbes, Deniliquin, &c. (see Weather Map). The sea on coast is smooth, light N.E. winds prevail, and the barometers are very steady. Queensland: Overcast at Brisbane; fresh N.N.W. wind, rough sea, showery, wind S.E. at Rockhampton; gloomy, light S.E. wind at Cooktown; rain, 3·310. 2 p.m. Observations.—Victoria: Melbourne, S., 18, dull, temperature 63·; Portland, S.S.E., 28, dull, smooth sea, temperature 60·; Cape Otway, S.S.E., 8, cloudy, moderate sea, temperature 65·; Wilson's Promontory, W., 23, cloudy, temperature 62·. New South Wales: Wentworth, calm, fine, temperature 79·; Deniliquin, S.E., fine, temperature 79·; Albury, W., cloudy, temperature 82·; Goulburn, W., dull, temperature 78·; Forbes, calm, cloudy, temperature 104·; Eden, S.W., 28, fine, sea moderate, temperature 78·; Moruya, S.E., 40, fine, sea moderate, temperature 74·; Cape George, N., 28, dull, sea smooth, temperature 74·; Sydney, E.N.E., 8, thunderstorm coming up from W.S.W., sea smooth, temperature 75·; Newcastle, N.E., fine, sea smooth; Port Macquarie, N.E., 42, fine, sea moderate, temperature 80·. State of Rivers.—Murrumbidgee: At Wagga, 4 inches below summer level. Murray: At Albury, 1 foot 2 inches above summer level. Darling: At Wentworth, 3 feet above summer level; at Pooncarie, summer level; at Menindi, 2 feet 11 inches above summer level; at Wilcannia, 9 inches above summer level.

WEATHER MAP.

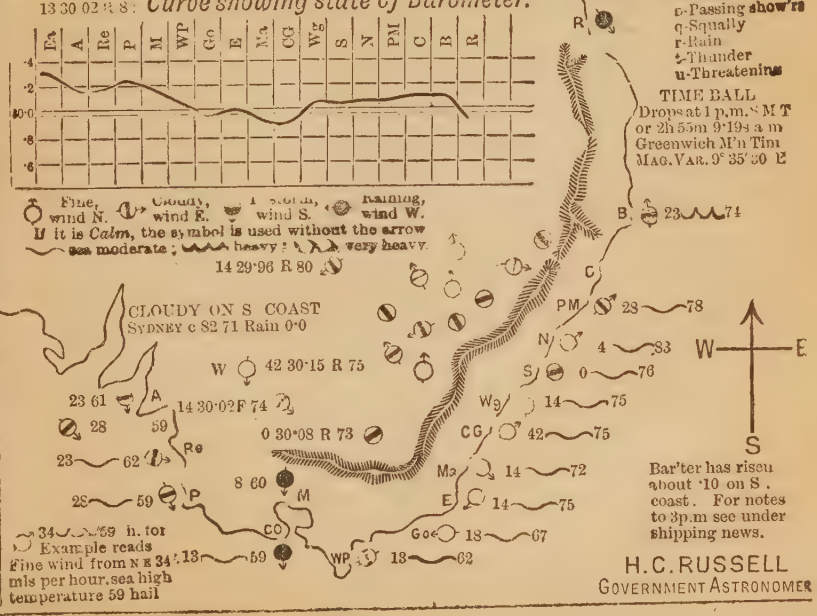
COMPILED from TELEGRAMS for 9 A.M., FEB'RY 3 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 3 2·843
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W'th	M'x	Bar	R'fall
Casino.	c	89	68	0
Tenterfield	g	78	56	0
Moree....	b	96	75	0
Grafton...	b	88	65	0
Inverell..	b	85	64	0
Bourke ..	c	105	70	0·02
Narrandi	b	104	73	0
Armidale	b	82	59	0
Bendemr	b	93	62	0
Gunned'h	b	101	65	0
Coonamle	c	101	74	0
Tamworth	b	110	65	0
Coonab'rn	c	95	69	0
P.Macqrie	b	81	71	0
Murr'undi	b	84	72	0
Cassilis..	b	99	63	0
Mus'br'ok	b	103	70	0
Dubbo...	c	96	73	0·99
Mudgee .	c	101	68	0·62
Maitland.	b	95	74	0
Hill End.	c	87	58	0·35
Newcastle	b	90	69	0
Orange..	c	88	65	1·37
Bathurst.	c	93	65	0·70
Condob'lin	p	78	61	0·39
MtViet'ria	b	82	58	2·20
Forbes. .	g	103	59	0·49
Picton	b	94	69	0
Wentw'th	b	94	60	0
Young...	g	94	69	0·68
Wollgo'ng	b	80	..	0
Moss Vale	g	88	65	0·20
Euston...	c	101	65	0
Goulburn	b	80	63	0·62
Wagga...	b	99	70	0·44
Cape Geo.	n	74	..	0·04
Queanb'n	b	86	68	0·63
Deniliq'in	g	94	62	0·18
Moruya..	b	79	67	0·06
Kiandra..	b	77	29	0
Albury..	c	103	65	1·40
Bodalla..	g	85	65	0·07
Cooma...	c	92	59	0·32
Eden....	b	76	68	0·10
Gabo Isl'd	g	76	65	0·47



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—February 4.

Victoria reports cloudy weather all round the coast, wind being light from S., and sea moderate; barometers shew a slight fall since yesterday; showery and misty at Wilson's Promontory; rain, Wilson's Promontory, 0·28, Melbourne, 0·09. New South Wales: Cloudy at generality of stations, fine inland at Bourke, and N.W. in the Liverpool Plains and Namoi River districts, cloudy all down coast, raining S. of Cape St. George; barometers very steady, sea smooth, wind moderate from S. For particulars re rainfall &c., see Weather Map. Queensland: Brisbane reports showery weather, with heavy sea at Moreton Bay Heads; rain, 0·016. Cooktown, showery, fresh S.E. wind, rain 2·35[illegible] inches. 3 p.m. Observations: Victoria: Barometers steady, Melbourne, E.S.E., 13, cloudy, temperature 66°; Cape Otway, E.S.E., [illegible], showery, moderate sea, temperature 61°; Portland, S., 04, squally, misty, temperature 56°; Wilson's Promontory, E., 28, cloudy, moderate sea, temperature 61°. New South Wales: Murray, Lines interrupted; Forbes, calm, cloudy, temperature [illegible]; Sydney, S., 12, raining, smooth sea, temperature 70°; Port Macquarie, N.E., 42, fine, moderate sea, temperature 80°; Goulburn, S.E., cloudy, temperature 71°; Eden, S., 14, raining, light easterly sea, temperature 63°; Cape George, S., 28, showery, smooth sea, temperature 69°; Newcastle, S., fine, smooth sea. State of Rivers.—**Murrumbidgee: At Wagga, 3 inches below summer level. Murray: At Albury, 1 foot 3 inches below summer level.**

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 4 1881, with NOTES to 3 P.M.

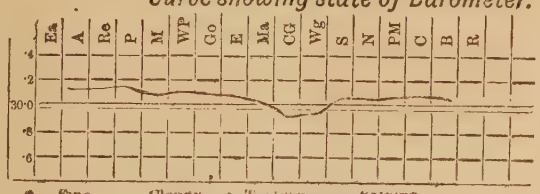
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31.. 3·478.
Total Rainfall from Jan. 1st to February 4 2·902
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M'n	R'in
Casino.	b	99	64	0
Tenterfild	g	83	57	0
Moree....	b	96	75	0
Grafton..	g	92	67	0
Inverell..	b	86	70	0
Bourke ..	b	103	71	0
Narrabri	b	105	75	0
Armidale	c	84	67	0
Bendem'r	g	91	70	0
Gunned'h	b	103	68	0
Coonamble	.	..	..	..
Tamworth	b	86	70	0
Coonab rn	b	95	64	0
P.Macqrie	m'	90	72	0
Murr'undi	b	90	71	0
Cassilis..	c	93	72	0
Mus'br'ok	g	100	65	1·00
Dubbo...	g	93	75	0
Mudgee .	g	94	71	0
Maitland.	g	95	76	0
Hill End.	g	80	..	0·23
Newcastle	g	89	68	0·01
Orange..	g	84	66	0·68
Bathurst.	p	84	65	0·57
Condob'lin	c	86	71	0·85
MtVict'ria	e	82	61	2·72
Forbes. .	b	97	59	0·15
		E		
Picton	o	91	69	0·05
Wentw'th	.	..	..	..
Young...	c	82	68	0·11
Wollgo'ng	g	84	67	0·13
Moss Vale	r	82	62	0·31
Euston...	.	..	..	..
Goulburn	g	80	59	0·21
Wagga...	g	93	67	0·31
Cape Geo.	p	80	..	0·12
Queanb'n	c	89	63	0·62
Deniliq'in		..	..	..
Moruya..	p	78	63	0·32
Kiandra..	g	61	40	1·20
Albury..	r	85	62	0·91
Bodalla.	r	84	61	0·28
Cooma...	e	80	59	1·09
Eden....	r	81	62	0·33
Gabo Isl'd	g	70	62	0·11

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy.

0 29·91 F 88

RAIN ON S E. COAST
SYDNEY g 81 69 Rain 0·059

23 30·07 F 64

8 63

34 60

34 59 h. for
Example reads
Fine wind from N E 34'
mls per hour. sea high
temperature 59 hail

8 65

23 58

14 64

14 63

18 64

14 74

28 76

7 71

10 79

23 79

23 76

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
M'ls
13-Li't brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
55-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·195 a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W — E
S

For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 5.

Victoria reports cloudy weather, but no rain falling; sea round coast smooth; barometers rising slowly, wind fresh from S.E.; rain, Portland, 0·060; Melbourne, 0·010. South Australia: Adelaide, 30·13, cloudy, temperature 65°, S., 18; Eucla, 30·25, temperature 70°, E.S.E., 13; Cape Borda, 30·20, cloudy, S.E., 18, moderate sea; Robe, 30·11, S.S.E., 23, cloudy, temperature 63°, sea smooth; Alice Springs, S.E., 13, cloudy. New South Wales: Raining throughout colony; for amount see weather map. Rain all down coast with fresh southerly winds and falling barometers, sea moderately rough. Queensland: Fine, fresh W. wind and moderate sea; rain at Cape Moreton 0·030, Cooktown 29·79, overcast, temperature 83°, E., 3, rain measured 3·11 inches. 3 p.m. Observations.—Victoria: Barometers steady; Portland, S.E., 18, cloudy, smooth sea, temperature 63°; Cape Otway, S.S.E., 13, showery, moderate sea, 59°; Wilson's Promontory, E.S.E., 13, cloudy, smooth sea, temperature 61. New South Wales: Sydney, S.S.W., 20, very light showers, temperature 67°. State of Rivers.—Murrumbidgee: At Wagga, 3 inches below summer level. Murray: At Albury, 1 foot 9 inches above summer level. Darling: At Wentworth, 2 feet 10 inches above summer level; at Menindie, 2 feet 11 inches above summer level; at Wilcannia, line down.

Meteorology
Meteor

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 5 1881, with NOTES to 3 P.M.

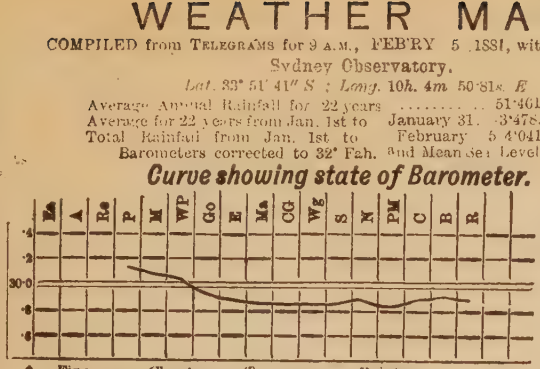
Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50·81*s.* *E*

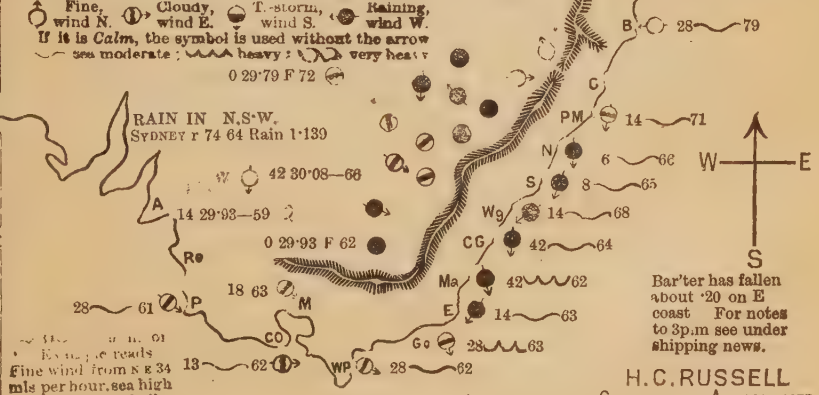
Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 5 4·041
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	Min	R'in
Casino.	b	92	67	0
Tenterfield	b	89	60	0
Moree....	r	95	75	0·43
Grafton...	g	92	78	0
Inverell..	b	..	..	0
Bourke ..	c	101	72	0·62
Narrabri	r	101	70	0·83
Armidale	r	84	65	0·5
Bendem'r	r	89	61	1·85
Gunned'h	r	101	60	1·67
Coonamble	.	100	62	1·93
Tamworth	r	88	63	1·35
Coonabarra	r	94	66	0·82
P.Macqrie	g	83	72	0·03
Murr'undi	r	87	65	1·08
Cassilis..	p	83	53	0·75
Mus'br'ok	r	91	63	2·08
Dubbo...	p	93	64	0·19
Mudgee .	p	97	63	1·07
Maitland.	r	89	69	1·20
Hill End.	r	81	53	1·95
Newcastle	r	78	65	1·89
Orange..	r	82	54	0·70
Bathurst.	g	81	58	1·50
Condob'lin	r	72	66	0·80
MtVict'ria	r	75	54	2.65
Forbes. .	g	94	49	3·52
		E		
Pictor	d	74	62	1·33
Wentw'th	b	77	65	0·04
Young...	g	87	61	0·47
Wollgo'ng	p	80	62	0·95
Moss Vale	r	66	57	1·20
Euston...	g	66	57	0.17
Goulburn	g	70	63	1·48
Wagga...	g	80	64	0·30
Cape Geo.	r	69	..	1·10
Queanb'n	g	72	60	0·34
Deniliq'in	g	64	52	1·32
Moruya..	r	73	60	1·27
Kiandra..	b	60	30	1·40
Albury..	r	83	58	1·65
Bodalla..	r	71	58	0·92
Cooma...	r	85	65	0·94
Eden....	p	65	59	0·53
Gabo Isl'd	g	66	61	0·27

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy



Fine wind from N E 34 mls per hour, sea high temperature 59 hail

WEATHER.

b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
1-Light breze
2-Mod. ,,
3-Fresh ,,
4-Strong gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a m Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Bar'ter has fallen about ·20 on E coast For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—February 7.

South Australia reports: Cloudy weather, but no rain either falling or measured; smooth sea, fresh S. winds, and rising barometers on coast. Victoria: Cloudy, wind fresh from S. and S.W.; barometers steady, sea smooth and moderate; no rain. New South Wales: Cloudy, heavy rains on coast, wind strong and gusty from S. and S.W.; barometers falling; raining also on mountains, but apparently clearing far inland, nine weather being reported from several of the N.W., W., and S.W. stations. For particulars re rainfall, &c., see weather map. Queensland: Brisbane, fine, fresh S. wind, moderate sea; Cooktown, dull and threatening, wind light from W.; rain, 0·490. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 18, fine, temperature 67°; Portland, S., 28, cloudy, smooth sea, temperature 66°; Cape Otway, S.W., 8, cloudy, slight sea, temperature 62°; Wilson's Promontory, W., 23, cloudy, moderate sea, temperature 67°. New South Wales: Wentworth, S.W., fine, temperature 68°; Deniliquin, calm, cloudy, temperature 75°; Albury, W., moderate, cloudy, temperature 78°; Goulburn, calm, showery, temperature 63°; Forbes, calm, fine, temperature 79°; Eden, S.W., 28, fine, light sea, temperature 70°; Cape George, S.S.E., 56, showery, heavy sea, temperature 64°; Sydney, S.S.W., 20, drizzling rain, moderate sea, temperature 65°; Newcastle, W., raining, moderate sea; Port Macquarie, E., 14, dull, like thunderstorm, smooth sea, temperature 72°; Clarence River, S., 14, showery, moderate sea, temperature 76°. State of the Rivers.—Murrumbidgee: At Wagga, 2 feet 6 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot above summer level; at Euston, summer level. Darling: At Wentworth, 2 feet 3 inches above summer level; at Pooncarie, summer level; at Menindie, 2 feet 10 inches above summer level; at Wilcannia, 1 foot above summer level.

WEATHER MAP.

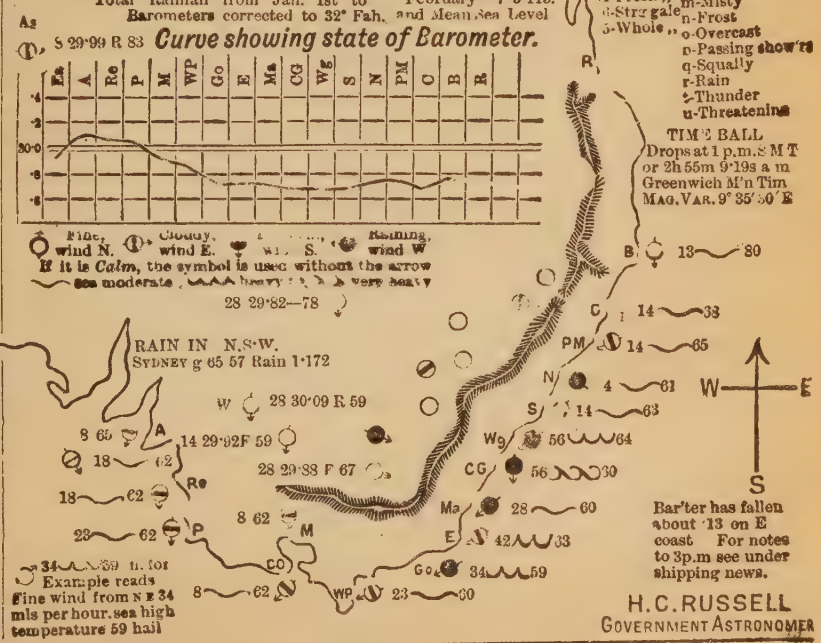
COMPILED from TELEGRAMS for 9 A.M., FEB'RY 7 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s. E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to January 31. ·3·478.
Total Rainfall from Jan. 1st to February 7 5·113.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'T	M'X	MN	R'IN
Casino...	b	89	62	0·20
Tenterfild.	c	77	51	0·16
Moree....	b	80	69	1·02
Grafton..	b	86	65	0
Inverell..	b	73	60	1 53
Bourke ..	.	..	..	..
Narrabri	b	85	63	0·93
Armidale	d	84	57	1·0.
Bendem'r	g	77	58	1·37
Gunned'h	b	86	53	0·05
Coonam'le	b	81	58	0·02
Tamworth	c	80	56	3·06
Coonab rn	.	..	..	..
P.Macqrie	g	71	61	0·03
Murr'undi	c	89	59	1·88
Cassilis..	.	..	..	..
Mus'br'ok	b	69	56	1·66
Dubbo...	.	..		
Mudgee .	b	73	58	0·78
Maitland.	p	65	60	1·50
Hill End.	g	80	48	0·10
Newcastle	r	66	59	0·79
Orange..	c	64	51	0·06
Bathurst.	g	65	52	0·53
Condob'ln	b	72	62	0
MtVict'ria	c	60	47	1·18
Forbes. .	b	82	55	0·38
23 57				
Pictor	b	68	56	1·31
Wentw'th	c	82	53	0
Young...	b	74	39	0·20
Wollgo'ng	p	66	52	0·82
Moss Vale	r	56	48	1·34
Euston...	b	86	52	0
Goulburn	g	57	46	1·53
Wagga...	b	78	54	0·43
Cape Geo.	p	64	..	1·22
Queanb'n	b	61	53	0·43
Deniliq'in	b	77	51	0
Moruya..	p	65	55	0·26
Kiandra..	.	..	..	..
Albury..	b	80	51	0·03
Bodalla.	.	..	..	..
Cooma...	p	85	46	0·18
Eden....	g	64	58	0·02
Gabo Isl'd	r	64	58	0·44



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 8.

Western Australia: Perth, fresh W.N.W wind, and smooth sea; Albany, wind W.N.W., 3, barometer 29·750. South Australia: Cloudy weather around coast, barometers rising, sea smooth, wind fresh from S., no rain; fine inland. Victoria: Cloudy on coast, with smooth sea, steady barometers, and fresh S. winds; rain, Melbourne, 0·040. New South Wales: Fine inland, at Bourke, Wentworth, Deniliquin, and Albury; and N.W. at Moree, Tenterfield, Armidale, Inverell, Grafton, Dubbo, &c. (see weather map); cloudy on coast; light rain falling from Newcastle, southwards to Wollongong; sea, moderate to N., and heavy down S.; barometers rising, wind fresh from S. Queensland: Fine light S.E. wind, rising barometer, and moderate sea. 9 p.m Observations.—Victoria: Melbourne, S., 13, cloudy, temperature 64°; Cape Otway, S.E., 13, cloudy, sea moderate, temperature 66°; Portland, E.S.E., 34, cloudy, sea light, temperature 63°; Wilson's Promontory, S., 8, cloudy, sea smooth, temperature 70°. New South Wales: Wentworth, S., fine, temperature 71°; Albury, calm, fine, temperature 78°; Forbes, calm, fine, temperature 90°; Moruya, S.E., 20, cloudy, sea moderate, temperature 70°; Sydney, S.S.W., 12, cloudy, sea moderate, temperature 65°; Port Macquarie, S., 56, squally, sea smooth, temperature 56°; Deniliquin, S., fine, temperature 79°; Goulburn, E.N.E., fine, temperature 66°; Eden, S.W., 14, gloomy, sea light, temperature 70°; Cape George, S., 42, fine, sea moderate, temperature 66°; Newcastle, S., raining, sea moderate; Clarence River, S., 42, fine, sea moderate, temperature 77°. At Nepean Towers, the residence of Dr. Jenkins, 4 inches of rain fell from February 1st to 7th. State of Rivers.—Murrumbidgee: At Wagga, 4 feet above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 2 feet 9 inches above summer level, at Euston, summer level. Darling: At Wentworth, 2 feet 7 inches above summer level; Pooncarie, summer level; Menindie, 2 feet 10 inches above summer level; Wilcannia, 1 foot 9 inches above summer level.

WEATHER MAP.

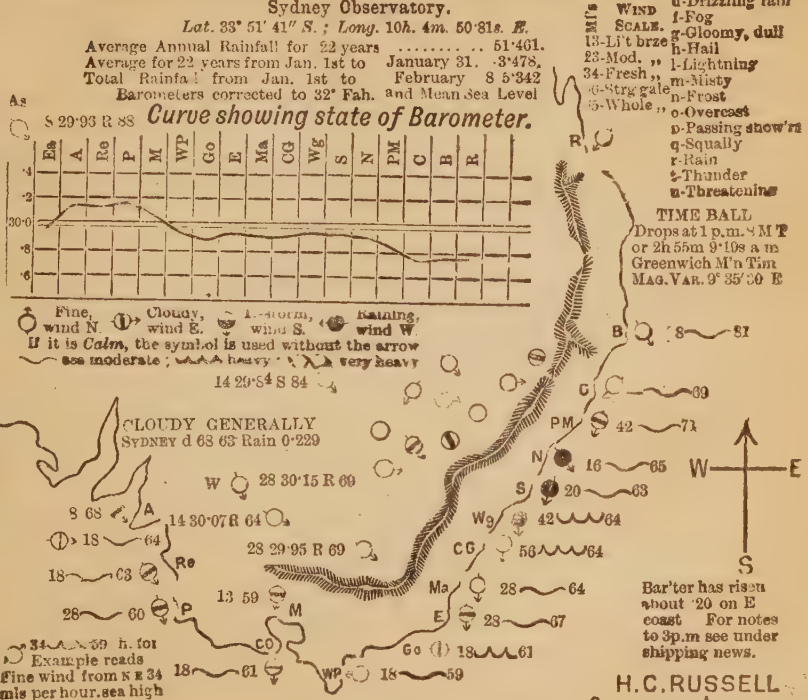
COMPILED from TELEGRAMS for 9 A.M., FEB'RY 8 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 8 5·342
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	Mn	R'fn
Casino..	c	92	60	0
Tenterfild	b	76	47	0
Moree....	b	85	65	0
Grafton..	b	87	64	0·18
Inverell..	h	83	58	0
Bourke ..	.	..	..	.
Narrabri	b	92	62	0
Armidale	b	71	55	0·07
Bendem'r	b	76	55	0
Gunned'h	d	89	53	0
Coonam'le	.	83	62	0
Tamworth	b	84	53	0·05
Coonab'rn	b	80	54	0
P.Macqrie	g	74	64	0·03
Murr'undi	p	74	62	0
Cassilis..	g	78	59	0
Mus'br'ok	g	84	61	0
Dubbo...	b	81	68	0
Mudgee ..	g	83	58	0
Maitland.	g	75	65	0·50
Hill End.	b	75	46	0·07
Newcastle	p	73	61	1·31
Orange..	b	67	55	0
Bathurst.	g	67	55	0·04
Condob'lin	.	..	..	0
MtVict'ria	g	63	45	0·06
Forbes...	b	89	59	0
18 71		E		
Picton	o	73	49	0
Wentw'th	b	80	53	0
Young...	b	78	63	0
Wollgo'ng	p	69	62	0·03
Moss Vale	c	58	53	0·43
Euston...	b	84	51	0
Goulburn	g	65	51	0·24
Wagga...	b	84	65	0
Cape Geo.	b	74	..	0·09
Queanb'n	b	77	54	0
Deniliq'in	b	84	52	0
Moruya..	b	72	57	0
Kiandra...	c	53	24	0
Albury...	b	92	57	0
Bodalla.	b	73	53	0·09
Cooma...	c	85	55	0
Eden....	g	70	59	0
Gabo Isl'd	g	66	58	0·10



H.C.RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 9.

Western Australia: Perth, gloomy weather, barometer 30·01, temperature 82°, wind N.E. 13 miles, sea smooth; Albany, fine, clear weather, barometer 29·98, temperature 81, wind S miles, sea smooth. South Australia reports fine clear weather from all stations, on the south coast the sea is smooth, the wind light from N.E., N.N.E., and S.E.; Port Darwin reports fine weather, wind N.W. 18 miles, barometer 29·78, no rain recorded, barometers show a slight fall. Victoria: Fine at Melbourne, Cape Otway, and Portland; dull and overcast at Wilson's Promontory; fresh easterly winds prevail round coast, and the sea is rather rough, the barometers being about the same as yesterday, except at Portland, where a fall of ·110 is recorded; no rain fallen. New South Wales: Cloudy weather still prevails on the coast and mountain districts, and westward as far as Murrurundi, Tenterfield, Armidale, and Young; fine clear weather is reported from the Liverpool Plains, Darling, Lachlan, Murray, and Murrumbidgee districts. (For rainfall, &c., see weather map.) Moderate sea, rising barometers, and light E. and S.E. winds hold all down coast; strong southerly winds with rain at Clarence River Heads. Queensland: Brisbane, fine and clear, barometer rising, strong S. wind, moderate sea, rain 0·[illegible]; Cooktown, fine, light W. wind, barometer 29·72, rain 0·3[illegible]. 3 p.m. Observations.—Victoria: Melbourne, N.N.E. 13, fine, temperature 79°; Portland, S. 23, fine smooth sea, temperature 7[illegible]°; Cape Otway, E.S.E. 13, fine, high sea, temperature 70°; Wilson's Promontory, N.E. 31, cloudy, rather rough sea, temperature 79°; Deniliquin, N.E. 14, fine, temperature 83°; Albury, calm, fine, temperature 79°; Forbes, calm, fine, temperature 91°; Eden, N.E. 14, fine, light, temperature 67°; Moruya, N.E. 28, fine, moderate sea, temperature 72°; Cape George, E.N.E. 42, fine, smooth sea, temperature 68°; Sydney, S. 8, cloudy, smooth sea, temperature 70°; Newcastle, S.E., fine, moderate sea; Port Macquarie, S. 56, cloudy, smooth sea, temperature 72; Clarence River, S. 56, squally, showery, heavy sea, temperature 73. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 10 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 2 feet 3 inches above summer level; at Euston, summer level. Darling: At Wentworth, 2 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, 2 feet 10 inches above summer level; at Wilcannia, 2 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 9 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 9 5·370.
Barometers corrected to 32° Fah. and Mean Sea Level

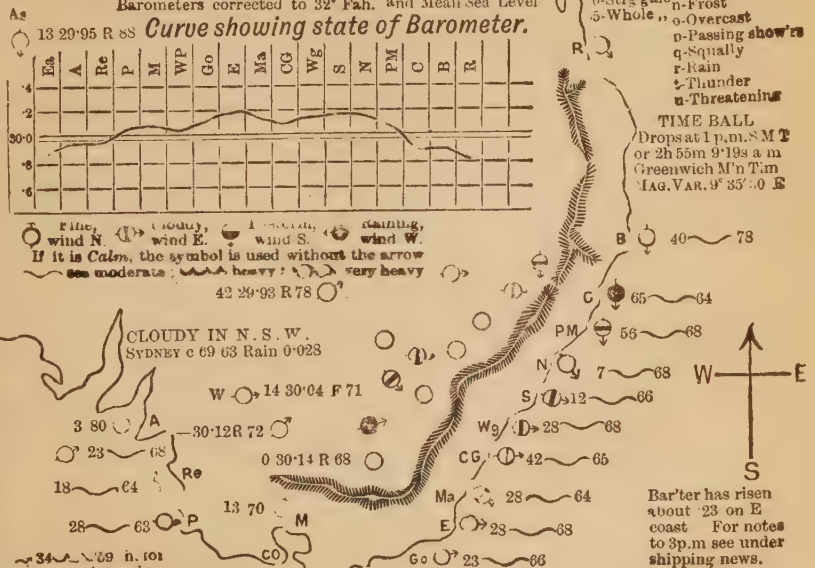
Stations.	W'th	M'x	Mn	R'in
Casino..	c	85	65	0·05
Tenterfild.	g	76	53	0
Moree....	b	93	69	0
Grafton..	g	87	65	0·04
Inverell..	h	75	68	0
Bourke ..	b	95	70	0
Narrabri	b	95	63	0
Armidale	g	70	55	0·12
Bendem'r	g	71	58	0
Gunned'h	b	88	54	0
Coonam'le	.	87	60	0
Tamwo'th	b	88	55	0
Coonab'rn	c	83	54	0·03
P.Macqrie	q	75	64	0·51
Murr'undi	c	70	59	0
Cassilis..	g	77	59	0
Mus'br'ok	g	73	58	0
Dubbo...	b	83	65	0
Mudgee .	b	83	58	0
Maitland.	c	70	64	0·20
Hill End.	g	72	41	0
Newcastle	b	82	63	0·01
Orange..	b	76	54	0
Bathurst.	g	74	56	0
Condob'ln	b	73	61	0
MtViet'ria	p	58	48	0·18
Forbes...	b	94	62	0
8 74		E		
Picton	g	77	60	0·04
Wentw'th	b	87	56	0
Young...	c	80	59	0
Wollgo'ng	c	70	65	0
Moss Vale	c	63	54	0·06
Euston...	b	88	66	0
Goulburn	g	77	54	0
Wagga...	b	88	62	0
Cape Geo.	c	70	..	0·05
Queanb'n	b	84	57	0
Deniliq'in	b	82	52	0
Moruya..	g	73	60	0·07
Kiandra..	c	55	25	0
Albury..	b	90	57	0
Bodalla.	c	76	58	0·05
Cooma...	p	65	50	0
Eden....	b	75	59	0·10
Gabo Isl'd	b	68	60	0·02

Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

WEATHER.
n-Blue sky.
e-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE. MI'S
13-Li't brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′·0 E



Bar'ter has risen about ·23 on E coast For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 10.

Western Australia: Perth, cloudy, strong S.S.W. wind, barometer 29·96, temperature 88°, sea slight; Albany, cloudy, S.E., 13, barometer 30·09, temperature 71°, sea rather rough. South Australia reports fine weather generally, with light S. winds, slightly falling barometers, and smooth sea; no rain has fallen. Victoria: Cloudy in east, fine in west of colony, smooth sea, falling barometers, and fresh N. winds round coast, no rain. New South Wales: Fine and clear inland, still cloudy on coast, strong S. squalls and rain at Clarence Heads, smooth sea all down coast, wind W. and S., barometers falling, rain at Clarence Heads 1·440. Queensland: Brisbane, cloudy, with strong S. wind, falling barometers, and moderate sea. 3 p.m. Observations.—Victoria: Barometers falling slowly; Melbourne, N.N.E., 13, fine, hot wind, temperature 80; Portland, S., 28, fine, smooth sea, temperature 70°; Wilson's Promontory, N.E., 8, cloudy, smooth sea, temperature 78°. New South Wales: Wentworth, N.W., cloudy, temperature 97°; Deniliquin, calm, fine, temperature 90°; Albury, calm, fine, temperature 89°; Goulburn, calm, fine, temperature 68°; Moruya, N.E., 42, fine, moderate sea, temperature 72°; Cape George, N.E., 28, fine, smooth sea, temperature 70°; Sydney, E., 8, fine, smooth sea, temperature 71°; Newcastle, E.S.E., fine, smooth sea, temperature 69°; Port Macquarie, S., 56, cloudy, moderate sea, temperature 73.; Clarence River, S., 42, showery, moderate sea, temperature 73°. State of Rivers: Murrumbidgee, at Wagga, 3 feet above summer level; at Hay, summer level; at Balranald, summer level. Murray, at Albury, 1 foot 10 inches above summer level; at Euston, summer level. Darling, at Wentworth, 2 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, 2 feet 10 inches above summer level; at Wilcannia, 4 feet above summer level.

WEATHER MAP.

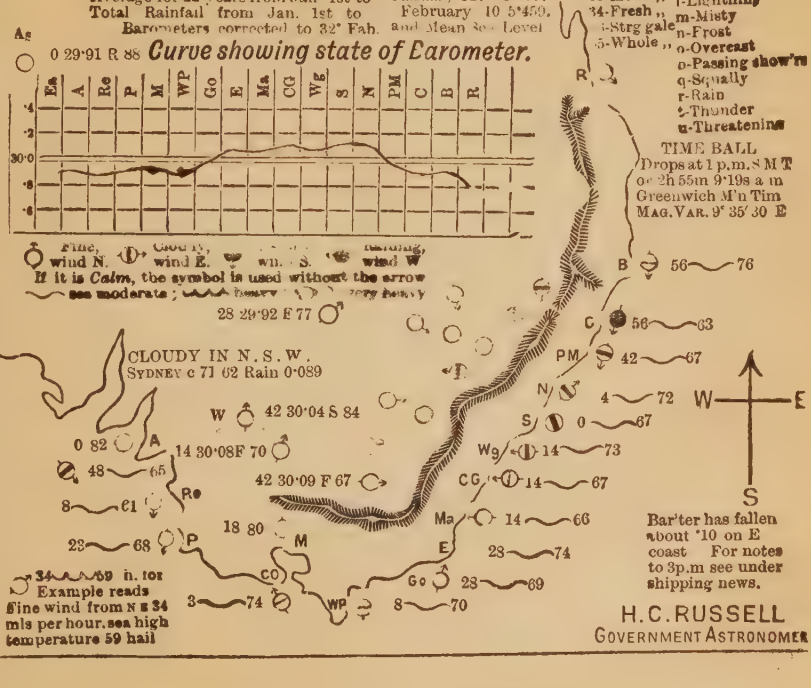
COMPILED from **Telegrams** for 9 A.M., FEB'RY 10 1881, with **Notes** to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S. : *Long.* 10*h.* 4*m.* 50·81*s.* E

Average Annual Rainfall for 2[illegible] years ..... 51·461.
Average for 22 years from Jan 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 10 5·459.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	Mn	R'in
Casino..	c	78	63	0·08
Tenterfild.	c	67	52	0
Moree....	b	91	67	0
Grafton..	g	77	58	0
Inverell..	b	84	58	0
Bourke ..	b	93	70	0
Narrabri	b	95	61	0
Armidale	g	62	52	0
Bendem'r	b	72	51	0
Gunned'h	.	..	..	..
Coonamble	.	78	59	0
Tamworth	b	87	56	0
Coonab rn	b	80	51	0
P.Macqrie	c	79	64	0·06
Murr'undi	b	71	57	0
Cassilis..	c	76	60	0
Mus'br'ok	b	75	58	0
Dubbo...	b	78	61	0
Mudgee .	g	75	66	0
Maitland.	c	74	64	0
Hill End.	b	65	40	0
Newcastle	g	76	66	0
Orange..	b	69	52	0
Bathurst.	b	67	55	0
Condob'ln	b	71	62	0
MtVict'ria	g	58	49	0·06
Forbes. .	b	95	59	0
Picton	b	73	56	0
Wentw'th	c	96	65	0
Young...	b	74	56	0
Wollgo'ng	b	70	69	0
Moss Vale		62	52	0·02
Euston...	b	104	65	0
Goulburn	b	67	50	0
Wagga...	b	83	58	0
Cape Geo.	c	74	65	0
Queanb'n	b	70	57	0
Deniliq'in	b	90	64	0
Moruya..	b	74	58	0
Kiandra..	b	54	26	0
Albury..	b	92	57	0
Bodalla..	b	78	52	0
Cooma...	b	61	47	0
Eden....	b	74	58	0
Gabo Is.'d	b	71	62	0



WEATHER.
b-Blue sky.
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

Bar'ter has fallen about ·10 on E coast For notes to 3p.m see under shipping news.

H.C.RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 11.

South Australia reports cloudy weather from stations on southern coast, with smooth sea; steady barometers and light S. and S.E. winds; fine and clear on N. coast and inland; no rain measured. Victoria: Weather cloudy, the coast stations report light variable winds and calms, slight sea and slowly rising barometers; rain nil. New South Wales: Fine clear weather prevails throughout the colony, on the coast the sea is smooth, and the barometers falling, the wind N. of Sydney is from S. and S.W., and southwards to the border a fresh N.E. breeze is reported from every station; inland the weather is warm and clear, with light winds and calms. Queensland: Brisbane, fine light S. breeze, rising barometer, and moderate sea; rain 0.010; Cooktown, fine, barometer 29·76; Rockhampton, wind S., barometer 29·78, rain 0·190. 3 p.m. Observations—Victoria: Melbourne, S.S.W., 18, fine, temperature 69°; Portland, S. 23, cloudy, sea smooth, temperature 68°; Cape Otway, S.W., 8, fine, sea slight, temperature 64°; Wilson's Promontory, W., 18, cloudy, sea slight, temperature 66°. New South Wales: Wentworth, S.W., fine, temperature 85°; Deniliquin, W., 14, fine, temperature 93; Albury, calm, fine, temperature 84; Goulbourn, calm, fine, temperature 76; Forbes, W., fine, temperature 96; Moruya, N.E., 42, fine, sea moderate, temperature 85°; Cape George, N.E., 28, fine, sea smooth, temperature 72°; Sydney, E., 8, fine, sea smooth, temperature 74°; Newcastle, E., fine, sea smooth; Port Macquarie, S., 42, fine, sea smooth, temperature 77°; Clarence River, S., 28, fine, sea smooth, temperature 77°. State of Rivers: Murrumbidgee, at Wagga, 2 feet 8 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray, at Albury, 1 foot 4 inches above summer level; at Euston, summer level.

WEATHER MAP.

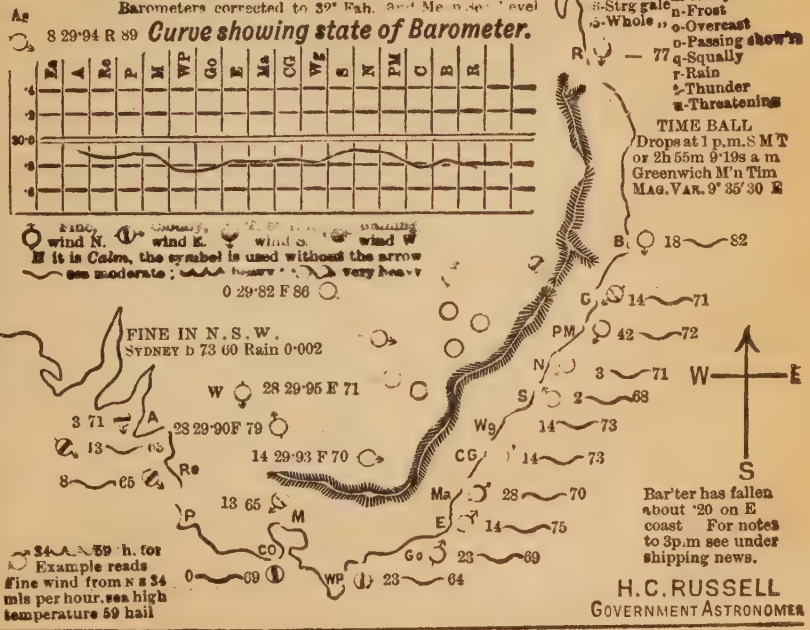
COMPILED from TELEGRAMS for 9 A.M., FEB'RY 11 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 11 5·461.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w'b	m'x	Mn	R'in
Casino..	c	82 67	0	
Tenterfild	b	74 50	0	
Moree....	b	94 71	0	
Grafton..	b	88 70	0	
Inverell..	b	84 59	0	
Bourke ..	b	96 72	0	
Narrabri	b	100 65	0	
Armidale	b	70 54	0	
Bendem'r	b	83 56	0	
Gunned'h	b	96 56	0	
Coonam'le	.	80 60	0	
Tamworth	b	96 54	0	
Coonab rn	o	85 52	0	
P.Macqrie	b	76 67	0	
Murr'undi	b	78 62	0	
Cassilis..	b	83 54	0	
Mus'br'ok	b	81 56	0	
Dubbo...	b	82 63	0	
Mudgee ..	b	87 48	0	
Maitland.	b	79 60	0	
Hill End.	b	72 43	0	
Newcastle	b	77 61	0	
Orange..	b	74 51	0	
Bathurst.	b	79 51	0	
Condob'ln	b	75 64	0	
MtVict'ria	b	79 46	0	
Forbes...	b	96 58	0	
		E		
Pictor	b	79 50	0·09	
Wentw'th	b	104 61	0	
Young...	b	78 59	0	
Wollgo'ng	b	78 55	0	
Moss Vale	b	72 49	0	
Euston...	b	108 69	0	
Goulburn	b	79 49	0	
Wagga...	b	85 60	0	
Cape Geo.	b	74 63	0	
Queanb'n	b	87 57	0	
Deniliq'in	b	93 65	0	
Moruya...	b	76 57	0	
Kiandra..	b	57 51	0	
Albury..	b	91 58	0	
Bodalla.	b	80 50	0	
Cooma...	b	70 55	0	
Eden....	b	75 62	0	
Gabo Isl'd	b	72 64	0	



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 12.

South Australia: Weather fine with falling barometers and light southerly winds; at Alice Springs, fine, no rain, wind N.E. Victoria reports fine weather, broken clouds Wilson's Promontory and Cape Otway, smooth sea all round coast with light N.E. and N. winds and calm, no rain; barometers show a fall of about 19· since yesterday morning. New South Wales: Fine clear weather is reported from all the inland stations and on the coast N. of Moruya, where, and at Eden and Gabo, the weather is threatening, smooth sea, falling barometers, and light variable northerly winds and calms hold all down coast. Queensland.—Brisbane: Fine and clear, light S. W. wind, rising barometer and moderate sea; Cooktown, fine light N. W. wind, barometer 29·80, temperate 79·; Rockhampton, wind inclining to S.E., barometer 29·81, temperature 80· 3 p.m. Observations.—Victoria: Barometers low and steady; Portland, W.N.W., 34, cloudy, smooth sea, temperature 70·; Cape Otway, W., fine smooth sea, temperature 69·; Wilson's Promontory, W., 3, showery, sea smooth, temperature 69·; New South Wales: Albury, S.W., fine, temperature 86·; Goulburn, N.W., fine, temperature 81·; Forbes, calm, fine, temperature 98·; Eden, N.E., fine, smooth sea, temperature 74·; Moruya, N.E., 30, fine, sea rough, temperature 78·; Cape George, N.E., fine, sea smooth, temperature 77·; Sydney, barometer low, wind E., 14, fine, clear, sea smooth, temperature 80·; Newcastle, N.E., fine, sea smooth, temperature 77·; Port Macquarie, N.E., fine, moderate sea, temperature 79·; Clarence River, S.E., fine, sea smooth, temperature 80· The Darling is rising steadily at Wilcannia. Murrumbidgee: At Wagga, 2 feet 4 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot 6 inches above summer level; at Euston, summer level. Darling: At Wentworth, 2 feet 4 inches above summer level; at Menindie, 2 feet above summer level; at Wilcannia, 7 feet 1 inch above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 12 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 12 5·463
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W't	M'x	Mn	R'in
Casino..	b	88	62	0
Tenterfild	b	87	58	0
Moree....	b	98	69	0
Grafton..	b	90	70	0
Inverell..	b	85	60	0
Bourke ..	b	101	74	0
Narrabri	b	106	60	0
Armidale	b	81	51	0
Bendem'r	b	85	51	0
Gunned'h	b	96	49	0
Coonam'le	b	95	63	0
Tamworth	b	99	50	0
Coonab rn	o	92	53	0
P.Macqrie	b	79	67	0
Murr'undi	b	86	59	0
Cassilis..	b	92	54	0
Mus'br'ok	b	89	58	0
Dubbo...	b	88	66	0
Mudgee..	b	92	59	0
Maitland.	b	83	67	0
Hill End.	b	8[illegible]	51	0
Newcastle	b	78	61	0
Orange..	b	82	57	0
Bathurst.	b	90	55	0
Condob'ln	b	80	65	0
MtVict'ria	b	93	64	0
Forbes. .	b	99	65	0
13 69		E		
Picton	b	85	57	0
Wentw'th	b	94	63	0
Young...	b	85	63	0
Wollgo'ng	b	83	60	0
Moss Vale	b	83	57	0
Euston...	b	98	37	0
Goulburn	b	93	55	0
Wagga...	b	93	65	0
Cape Geo.	b	74	67	0
Queanb'n	b	93	62	0
Deniliq'in	b	99	58	0
Moruya..	g	77	67	0
Kiandra..	b	64	41	0
Albury..	b	98	59	0
Bodalla.	g	83	64	0
Cooma...	b	79	61	0
Eden....	g	76	65	0
Gabo Isl'd	g	78	64	0

As 13 29·97 R 98

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Thunder-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

0 29·70 F 92

FINE IN N.S.W.
SYDNEY b 78 65 Rain 0·002

W 28 29·83 F 75

8 65 A 14 29·76 F 74

18 63 Re

18 61

28 63 P

13 72 M

0 29·82 F 74

34 59 h. for Example reads Fine wind from N E 34 mls per hour, sea high temperature 59 hail

0 64 CO

WP 13 64

Go 13 65

E 14 71

Ma 14 71

CG 14 73

Wg 14 78

S 0 75

N 5 70

PM 0 76

C 14 72

B 8 82

R 80

WEATHER.
b-Blue sky..
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

MI's WIND SCALE.
13-Lt brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W E S

Bar'ter has fallen about ·15 on E & S coasts. For notes to 3p.m see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 14.

South Australia reports fine weather, with light easterly winds, rising barometers, and smooth sea; cloudy at Cape Borda; rain—Adelaide, 0·020; Robe, 0·050; Port Darwin, 1·110; weather at Port Darwin fine, clear, and calm. Victoria: Cloudy, wind S. and E. moderate, barometers rising, sea moderate; rain—Melbourne, 0·100; Portland, 0·370. No reports from Wilson's Promontory. New South Wales: Fine at generality of stations; cloudy inland at and near Cassilis, Muswellbrook, and Mudgee; cloudy on coast at Clarence Heads, Sydney, and Wollongong; sea moderate, wind strong from S., barometers rising, maximum temperature in shade at Sydney yesterday 100·5. See maps. Queensland: Fine and clear, falling barometers, smooth sea, no rain. 3 p.m. Observations.—Victoria: S.S.W., 13, fine, barometers rising, temperature 66°; Portland, S.E., 28, fine, smooth sea, temperature 64°; Cape Otway, E, 8, very fine, sea smooth, temperature 68°; Wilson's Promontory, no report. New South Wales: Wentworth, S. fine, temperature 77°; Albury, N., 14, fine, temperature 75°; Gulburn, N.E., dull, temperature 71°; Forbes, calm, fine, temperature 96°; Eden, S.E., fine, smooth sea, temperature 73°; Moruya, N.E., 42, fine, rough sea, temperature 78.; Cape George, S.S.E., 42, fine, moderate sea, temperature 67°; Sydney, S., 14, cloudy, little sea, temperature 68°; Newcastle, S.E., showery, smooth sea; Port Macquarie, S., 28, showery, smooth sea, temperature 76°; Clarence River, S., 56, dull, smooth sea, temperature 75°. Sunday forenoon the wind veered to N.W. and for a time the temperature rose to 100·5, the highest this season. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 4 inches above summer level. Darling: At Wentworth, 2 feet 3 inches above summer level; Pooncarie, summer level; Menindie, 3 feet above summer level; Wilcannia, 10 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 14 1881, with NOTES to 3 P.M.

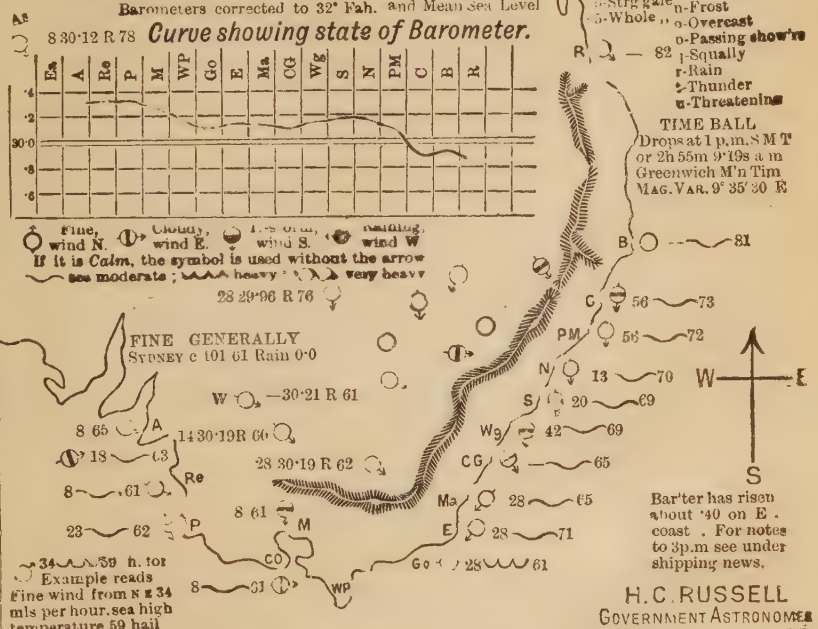
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 14 5·463
Barometers corrected to 32° Fah. and Mean sea Level

Stations.	w't	M'x	Mn	R'in
Casino..	c	99 73		6
Tenterfild	b	92 52		0
Moree....	b	104 90		0
Grafton..	b	98 73		0
Inverell..	b	89 61		0
Bourke ..	b	101 73		0
Narrabri	b	109 65		0
Armidale	b	88 58		0
Bendem'r	b	94 57		0
Gunned'b	b	101 53		0
Coonam'le	b	102 61		0
Tamworth	o	106 57		0
Coonab rn	b	100 58.		0
P.Macqrie	m	82 70		0
Murr'undi	g	95 66		0
Cassilis..	g	102 65		0
Mus'br'ok	g	103 62		0
Dubbo...	b	93 67		0
Mudgee .	g	99 60		0
Maitland.	c	100 70		0
Hill End.	b	87..		0
Newcastle	b	98 65		0
Orange..	b	82 51		0
Bathurst.	b	94 50		0
Condob'ln	.	..		..
MtVict'ria	d	82 49		0·04
Forbes...	b	95 63		0
		E		
Pictor	b	97 57		0
Wentw'th	b	78 52		0
Young...	b	79 58		0
Wollgo'ng	c	95 65		0
Moss Vale	g	100 54		0
Euston...	b	98 59		0
Goulburn	b	85 49		0
Wagga...	b	98 54		0
Cape Geo.	c	93 64		0
Queanb'n	b	95 53		0
Deniliq'in	b	93 51		0
Moruya..	b	93 56		0
Kiandra..	b	50 45		0
Albury..	b	98 47	C	21
Bodalla.	b	96 48		0
Cooma...	b	59 42		0
Eden....	b	79 59		0
Gabo Is'd	b	74 57		0

Curve showing state of Barometer.



Mi's WIND SCALE.
13-Lt brze
23-Mod. ,,
34-Fresh ,,
43-Strg gale
55-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Bar'ter has risen about ·40 on E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 15.

South Australia: Weather fine and clear, light northerly winds, moderate sea, and falling barometers prevail on S. coast; calm and cloudy at Port Darwin; fine at Alice Springs, wind light from S.E., no rain. Victoria: Fine; broken clouds at Melbourne and Wilson's Promontory; smooth sea on coast with light easterly and northerly winds and calms, barometers falling, no rain. New South Wales: Fine at generality of station; cloudy on coast, chiefly at Northern ports; showery with moderate sea and strong S.E. winds at Clarence River Heads; fresh E. and S.E. winds, rising barometers, and smooth sea all down coast; for weather at each station, &c., see list in Weather Map. Queensland: Brisbane, cloudy and sultry, barometers rising; Rockhampton, gloomy, wind S.E., rain 0·250; Cooktown, sultry but clear, heavy dew on ground, barometer 29·78, temperature 87°, calm. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, N., 18, fine, temperature 89°; Portland, N., 28, fine, sea smooth, temperature 83°; Cape Otway, S.E., 8, fine, smooth sea, temperature 76°; Wilson's Promontory, N.E., 18, cloudy, moderate sea, temperature 72°. New South Wales: Wentworth, E., clear, warm, temperature 82°; Goulburn, N.E., fine, temperature 70°; Eden, N.E., 20, fine, little sea, temperature 70°; Moruya, N.E., 42, fine, moderate sea, temperature 72°; Cape George, E.N.E., 28, fine, smooth sea, temperature 69°; Sydney, E., 8, fine, smooth sea, temperature 72°; Newcastle, E.S.E., fine, smooth sea,; Port Macquarie, S.E., 14, hazy, moderate sea, temperature 75°; Clarence River, S., 42, dull, sea moderate, temperature 76°. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 4 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot 3 inches above summer level; at Euston, summer level. Darling: At Wentworth, 2 feet 3 inches above summer level; at Pooncarie, summer level; at Menindie, 4 feet 8 inches above summer level; at Wilcannia, 10 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 15 1881, with NOTES to 3 P.M.

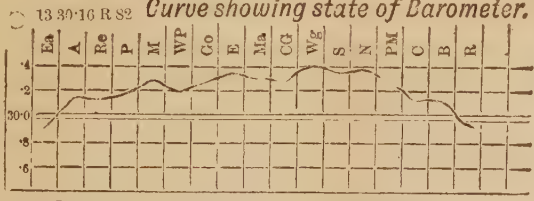
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

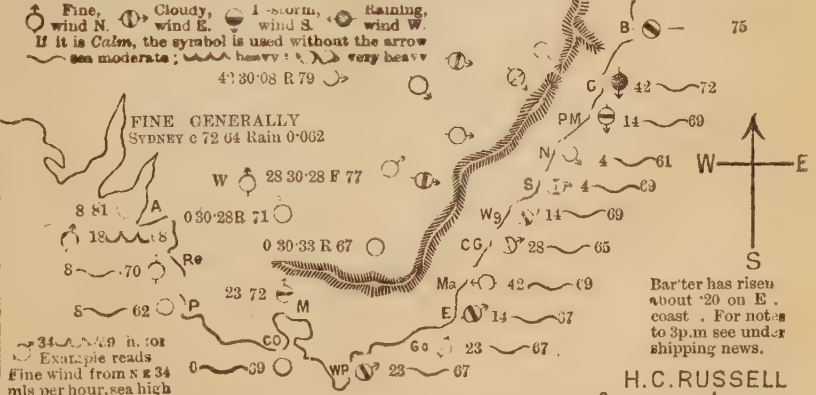
Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 15 5·525.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W'th	M'x	Mn	R'in
Casino..	b	78	66	0
Tenterfild	g	75	53	0
Moree....	g	102	72	0
Grafton..	g	81	68	0
Inverell..	b	86	63	0
Bourke ..	b	92	72	0
Narrabri	c	100	66	0
Armidale	g	65	53	0
Bendem'r	g	72	56	0
Gunned'h	c	100	54	0
Coonam'le	b	97	64	0
Tamworth	o	86	58	0
Coonab rn	b	81	57	0
P.Macqrie	c	75	67	0
Murr'undi	c	75	61	0
Cassilis..	g	71	59	0
Mus'br'ok	b	80	58	0
Dubbo...	b	83	63	0
Mudgee..	b	83	59	0
Maitland.	b	79	64	0
Hill End.	b	76	..	0
Newcastle	b	78	65	0·02
Orange..	b	70	53	0
Bathurst.	b	68	55	0
Condob'ln	b	72	64	0
Mt Vict'ria	g	59	47	0·28
Forbes...	b	98	61	0
Picton	g	74	59	0
Wentw'th	b	85	55	0
Young...	b	77	60	0
Wollgo'ng	g	75	62	0
Moss Vale	g	66	53	0
Euston...	b	83	58	0
Goulburn	b	71	52	0
Wagga...	b	82	51	0
Cape Geo.	g	68	63	0
Queanb'n	c	84	59	0
Deniliq'in	b	98	51	0
Moruya..	b	93	56	0
Kiandra..	b	66	50	0
Albury .	b	88	50	0
Bodalla.	g	79	56	0
Cooma...	b	63	46	0
Eden....	b	77	62	0
Gabo Isl'd	b	70	60	0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy



Bar'ter has risen about ·20 on E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 16.

Western Australia: Perth, barometer 30·170, temperature 90°; sea smooth, wind E.S., 3 miles. South Australia reports fine clear weather, with smooth sea, steady barometers, and light southerly winds; no rain. Victoria: Cloudy, with light N. winds in east of colony, fine in west; wind westerly; smooth sea all round coast, with falling barometers; no rain. New South Wales: Fine inland, cloudy on Queensland border; showery at Clarence River Heads, cloudy weather extending on coast southwards to Sydney; sea smooth, barometers falling; wind light from north and calm. Queensland: Brisbane, fine, strong S. wind, and rather rough sea; rain at Cape Moreton, 0·150°; Rockhampton, gloomy, rain 0·530; Cooktown, gloomy, wind W., rain 0·800. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S., 13, fine, temperature 78°; Portland, S.S.W., 28, cloudy, smooth sea, temperature 70°; Cape Otway, W., 13, cloudy, smooth sea, temperature 60°; Wilson's Promontory, W., 13, cloudy, smooth sea, temperature 75°. New South Wales: Deniliquin, calm, fine, temperature 91°; Albury, W., fine, temperature 82°; Goulburn, W., fine, temperature 75°; Forbes, calm, fine, temperature 95°; Eden, N., 14, fine, light sea, temperature 76°; Cape George, N.E., 42, fine, smooth sea, temperature 72°; Sydney, E.N.E., 28, fine, smooth sea, temperature 74°; Newcastle, E.N.E., fine, smooth sea; Port Macquarie, E., 28, fine, smooth sea, temperature 77°; Clarence River, S.E., 23, fine, moderate sea, temperature 78°. State of Rivers.—Murray: At Albury, 1 foot 3 inches above summer level. Darling: At Wentworth, 2 feet 2 inches above summer level; at Pomaroie, summer level; at Menindie, 6 feet 3 inches above summer level; at Wilcannia, 11 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 16 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* E

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 16 5·525
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W't	M'x	Mn	R'in
Casino..	c	72	66	0
Tenterfild	c	62	52	0
Moree....	g	94	71	0
Grafton..	g	78	65	0
Inverell..	b	87	50	0
Bourke ..	b	95	73	0
Narrabri	b	103	66	0
Armidale	b	67	35	0
Bendem'r	b	76	52	0
Gunned'h	b	92	54	0
Coonam'le	b	91	66	0
Tamworth	b	93	53	0
Coonab rn	b	85	56	0
P.Macqrie	c	77	65	0
Murr'undi	b	79	58	0
Cassilis..	b	81	55	0
Mus'br'ok	b	82	56	0
Dubbo...	b	84	66	0
Mudgee .	b	86	59	0
Maitland.	b	86	59	0
Hill End.	b	73	..	0
Newcastle	g	78	65	0
Orange..	b	70	52	0
Bathurst.	b	78	48	0
Condob'ln	b	75	64	0
MtVict'ria	b	74	51	0
Forbes...	b	96	62	0
Pictor	b	77	54	0
Wentw'th	b	96	62	0
Young...	b	80	59	0
Wollgo'ng	b	72	66	0
Moss Vale	b	71	53	0
Euston...	b	95	62	0
Goulburn	b	77	49	0
Wagga...	b	85	62	0
Cape Geo.	b	74	61	0
Queanb'n	b	87	53	0
Deniliq'in	b	79	63	0
Moruya..	b	65	57	0
Kiandra..	b	64	53	0
Albury..	b	90	53	0
Bodalla.	b	80	46	0
Cooma...	b	62	47	0
Eden....	b	77	60	0
Gabo Isl'd	b	71	63	0

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 17.

South Australia: Cloudy, with light variable southerly winds and calms, smooth sea on coast, no rain, barometers steady. Victoria: Cloudy, but without rain, smooth sea, light soutnerly winds and slowly-rising barometers round coast. New South Wales: Fine all down coast and inland; cloudy up north at Casino, Tenterfield, Moree, and Grafton; light north winds, falling barometers, and smooth sea hold all down coast; no rain has fallen. Queensland: Brisbane, showery, strong N.W. wind, rain 0·120; Cape Moreton, rain 0·270; Cooktown, gloomy, light S.E. wind, rain 0·530; Rockhampton, wind inclining to S.E., rain 0·070. 3 p.m. Observations.—Victoria: Portland, E.S.E, 18, fine, smooth sea, temperature 62°; Melbourne, S.W., 18, fine, temperature 67°; Cape Otway, S.E., 8, fine, smooth sea, temperature 67°; Wilson's Promontory, E.S.E., 8, fine, smooth sea, temperature 69°. New South Wales: Wentworth, calm, fine, temperature 98°; Deniliquin, calm, fine, temperature 97°; Albury, calm, fine, temperature 86° Goulburn, calm, fine, temperature 90°; Forbes, calm, fine, temperature 96°; Eden, E.S.E., 14, fine, light, temperature 71°; Moruya, S.E., 20, hazy, sea moderate, temperature 74°; Cape George, N.E., 14, fine, smooth sea, temperature 72°; Sydney, E.N.E, 12, cloudy, smooth sea, temperature 75°; Newcastle, E.N.E., fine, smooth sea; Port Macquarie, N.E., 42, hazy, smooth sea, temperature 78°; Clarence River, S.E., fine, smooth sea, temperature 78°. State of Rivers.—Murrumbidgee: At Wagga, 1 feet 3 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot 2 inches above summer level; at Euston, summer level. Darling: At Wentworth, 2 feet 1 inch above summer level; at Pooncarie, summer level; at Menindie, 7 feet 8 inches above summer level; at Wilcannia, 11 feet 2 inches above summer level.

WEATHER MAP.

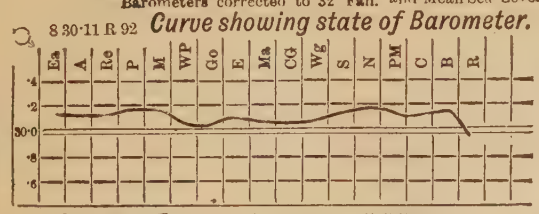
COMPILED from TELEGRAMS for 9 A.M., FEB'RY 17 1881, with NOTES to 3 P.M.

Sydney Observatory.

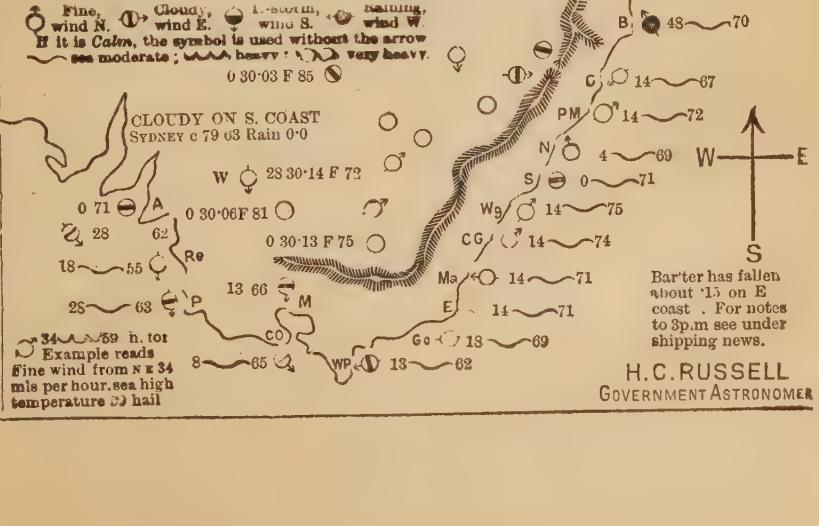
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 17 5·525.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	w't	M'x	Mn	R'in
Casino..	c	83 58		0
Tenterfild	c	75 51		0
Moree....	g	98 71		0
Grafton..	g	82 64		0
Inverell..	b	84 59		0
Bourke ..	c	96 74		0
Narrabri	b	105 63		0
Armidale	b	76 53		0
Bendem'r	b	84 55		0
Gunned'h	g	96 55		0
Coonam'le	b	100 67		0
Tamworth	b	97 54		0
Coonab rn	b	88 54		0
P.Macqrie	b	79 61		0
Murr'undi	b	83 59		0
Cassilis..	b	89 54		0
Mus'br'ok	b	87 58		0
Dubbo...	b	87 69		0
Mudgee..	b	93 60		0
Maitland.	b	86 61		0
Hill End.	b	70	..	0
Newcastle	b	90 62		0
Orange..	b	80 54		0
Bathurst.	b	85 51		0
Condob'ln	b	80 69		0
MtVict'ri	b	82 56		0
Forbes. .	b	98 61		0
18 68		E		
Picton	b	79 53		0
Wentw'th	b	104 61		0
Young...	b	85 63		0
Wollgo'ng	b	82 60		0
Moss Vale	b	83 55		0
Euston...	b	114 67		0
Goulburn	b	88 51		0
Wagga...	b	92 64		0
Cape Geo.	b	75 62		0
Queanb'n	b	91 58		0
Deniliq'in	b	99 60		0
Moruya..	b	80 61		0
Kiandra..	b	58 40		0
Albury..	b	97 61		0
Bodalla..	b	84 55		0
Cooma...	b	74 57		0
Eden....	b	77 61		0
Gabo Isl'd	b	77 63		0



Fine, wind N. Cloudy, wind E. L.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy.



WEATHER.
a-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
o-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Mi's WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30 E

Bar'ter has fallen about ·15 on E coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 18.

Western Australia: Albany, gloomy, wind W.S.W., 13 miles, sea smooth; barometer 30·080, temperature 70· South Australia: weather fine and clear, smooth sea, steady barometers, and light S.E. winds and calms; cloudy at Eucla; fine, calm, and warm inland. Victoria reports weather cloudy, but not threatening; round the coast the sea is smooth, the wind light from S.E. and W.S.W., and the barometer about the same as yesterday; no rain has fallen. New South Wales: Fine clear weather prevails; cloudy at Casino, Tenterfield, Moree, and Grafton, and S. at Eden and Gabo Island; warm and calm inland; smooth sea, slightly falling barometers, and light Northerly and S.W. winds on coast; dense fog in early morning. Queensland: Brisbane, sultry and overcast; rain at Cape Moreton, 0·020; Cooktown, gloomy, barometer, 29·89, temperature 82·, wind S.E. 28 miles, rain, 0·670; Rockhampton, wind inclining to S.E., rain, 0·020. 3 p.m. Observations.—Victoria: barometers steady; Melbourne: S.S.W., 18, fine, temperature 68·; Cape Otway: S., 8, cloudy, smooth sea, temperature 64·; Portland: S., 23, fine, smooth sea, temperature 62·; Wilson's Promontory: W., 23, cloudy, smooth sea, temperature 66·. New South Wales: Albury, W., fine, hazy, temperature 90·; Forbes, calm, fine, temperature 107·; Moruya, N.E., 30, cloudy, moderate sea, temperature 73·; Sydney, E.N.E., 8, light clouds, warm, smooth sea, temperature 79·; Port Macquarie, N.E., fine, temperature 80; Deniliquin, W., fine, temperature 92·; Goulburn, N.W., fine, temperature 83·; Eden, E.N.E., fine, smooth sea, temperature 72·; Cape George, N.E., fine, smooth sea, temperature 72·; Newcastle, N.E., fine, smooth sea. State of Rivers.—Murrumbidgee: At Wagga, 1 foot above summer level; at Hay, 2 feet above summer level; at Balranald, summer level. Murray: At Albury, 2 feet 2 inches above summer level; at Euston, summer level. Darling: At Wentworth, 2 feet above summer level; at Pooncarie, summer level; at Menindie, 9 feet 8 inches above summer level; at Wilcannia, 11 feet 4 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 13 1881, with NOTES to 3 P.M.

Sydney Observatory.

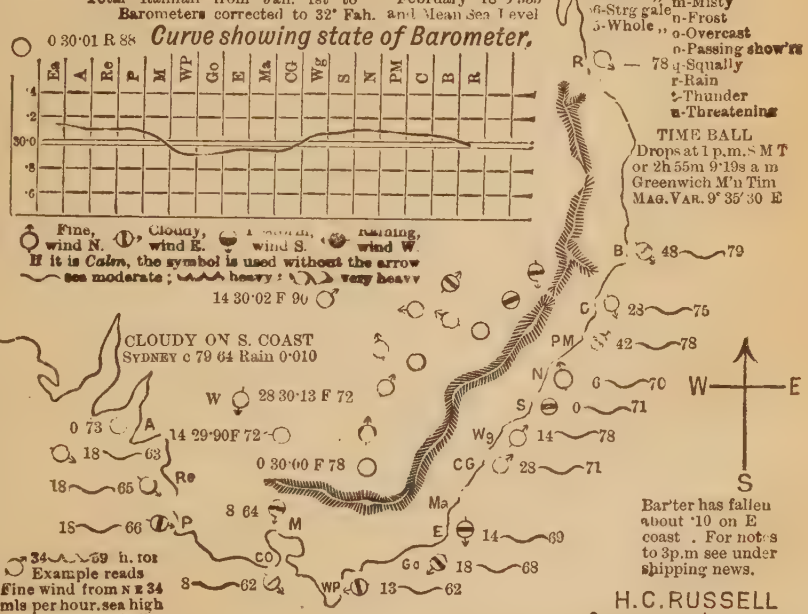
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 18 5·535
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W't	M'x	Mn	R'in
Casino..	c	93	63	0
Tenterfild	c	80	57	0
Moree....	g	92	63	0
Grafton..	g	89	69	0
Inverell..	b	82	53	0
Bourke ..	b	107	76	0
Narrabri	b	105	62	0
Armidale	b	74	52	0
Bendem'r	b	85	58	0
Gunned'h	b	91	54	0
Coonam'le	b	99	64	0
Tamworth	b	100	57	0
Coonab rn	b	94	52	0
P.Macqrie	c	80	71	0 C9
Murr'undi	b	84	63	0
Cassilis..	b	8[illegible]	53	0
Mus'br'ok	b	92	58	0
Dubbo...	b	91	68	0
Mudgee .	b	96	59	0
Maitland.	b	85	67	0
Hill End.	b	82	..	0
Newcastle	f	82	65	0
Orange..	b	83	56	0
Bathurst.	b	90	55	0
Condob'ln	b	..	..	0
MtViet'ria	b	89	59	0
Forbes. .	b	108	72	0
8 70 Pictor	b	83	54	0
Wentw'th	b	101	60	0
Young...	b	95	67	0
Wollgo'ng	b	83	60	0
Moss Vale	b	87	60	0
Euston...	b	106	58	0
Goulburn	b	92	57	0
Wagga...	c	97	72	0
Cape Geo.	b	79	66	0
Queanb'n	b	98	64	0
Deniliq'in	b	106	64	0
Moruya..	b	..	..	0
Kiandra..	b	67	60	0
Albury..	b	103	65	0
Bodalla..	b	..	..	0
Cooma...	b	77	62	0
Eden....	g	80	67	0
Gabo Isl'd	g	80	64	0

WEATHER.
b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE. Mls
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
75-Whole ,,



TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Bar'ter has fallen about ·10 on E coast . For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 19.

Western Australia: Albany, wind E.S.E., 28, barometer 29·870, temperature 70°, sea smooth; Perth, wind S.S.W., 23, barometer 29·870, temperature 98°, sea slight. South Australia: Barometers rising slowly; calm and fine at Adelaide, and along the coast S.E. winds; Alice Springs, cloudy, wind S.E., no rain; Port Darwin, calm, cloudy, rain 0·25. Victoria reports fine weather, with light broken clouds; gloomy and threatening at Cape Otway; smooth sea, light westerly and south-westerly winds and rising barometers on coast; no rain. New South Wales: Fine and clear inland; cloudy on coast at Newcastle and Wollongong; smooth sea all down, with light southerly winds and steady barometers; no rain fallen except at Eden, where 0·020 is recorded. (For particulars see weather map.) Queensland: Brisbane, fine, with light S.W. wind. 3 p.m. Observations.—Victoria: Barometers steady; Portland, W., 23, passing showers, smooth sea, temperature 67°; Cape Otway, S., 8, cloudy, moderate sea, temperature 67°; Wilson's Promontory, S., 34, cloudy, fine, smooth sea, temperature 68°. New South Wales: Wentworth, calm, fine, temperature 80°; Albury, W., fine, temperature 86°; Goulburn, calm, fine, temperature 82°; Forbes, W., fine, temperature 105°; Eden, S.E., fine, sea smooth, temperature 70°; Moruya, S.E., 20, cloudy, sea smooth, temperature 68°; Cape George, S.S.E., fine, sea smooth, temperature 80°; Sydney, S.S.E., fine, sea smooth, temperature 72°; Newcastle, S.E., fine, sea smooth; Port Macquarie, S., fine, sea smooth, temperature 80°; Clarence River, N.E., fine, sea smooth temperature 72°. State of Rivers.—Murrumbidgee: At Wagga, 1 foot above summer level. Murray: At Euston, 1 foot 2 inches above summer level.

tations.	W't	M'x	Mn	R'in
sino..	b	92	56	0
nterfild	b	79	57	0
oree....	b	96	73	0
rafton..	b	91	64	0
verell..	b	85	64	0
ourke ..	b	105	78	0
arrabri	b	106	66	0
midale	b	84	40	0
ndem'r	b	89	51	0
nned'h	b	101	55	0
onam'le	b	99	56	0
nworth	b	102	55	0
onab rn	b	94	55	0
Macqrie	b	82	68	0
urr'undi	b	88	68	0
ssilis..	b	92	61	0
ts'br'ok	b	96	65	0
bbo...	b	93	73	0
dgee..	b	89	64	0
itland.	b	96	70	0
ll End.	b	85	..	0
wcastle	g	89	65	0
ange..	b	86	61	0
thurst.	b	93	59	0
dob'ln	b	84	74	0
Vict'ria	b	89	66	0
rbes...	b	104	71	0
18 70		E.		
Picton	b	94	63	0
ntw'th	b	100	58	0
ing...	b	93	66	0
lgo'ng	c	84	65	0
ss Vale	b	90	62	0
ston...	b	103	59	0
alburn	b	94	60	0
gga...	b	102	64	0
e Geo.	b	79	67	0
anb'n	b	96	63	0
hiliq'in	b	99	56	0
uya..	b	71	64	0
ndra...	b	67	48	0
ury..	b	103	52	0
lalla..	c	92	62	0
ma...	b	67	52	0
n....	b	76	59	0.62
o Isl'd	b	70	64	0

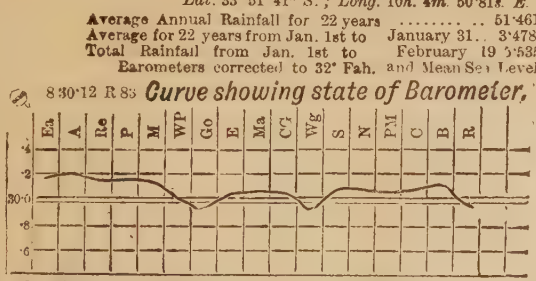
WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 19 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to January 31.. 3·478.
Total Rainfall from Jan. 1st to February 19 5·535
Barometers corrected to 32° Fah. and Mean Sea Level



Fine, wind N. Cloudy, wind E. Fog, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

14 29·98 F 95

FINE GENERALLY
SYDNEY b 81 68 Rain 0·0

W 28 30·23 R 65

0 76 A 14 30·03R 65

13 60

0 30·06 R 63

18 64 Re

13 65 M

18 65 P

CO

34 59 h. for
Example reads
Fine wind from N E 34
mls per hour. sea high
temperature 59 hail

8 68 WP 23 64

Go 23 65

E 23 66

Ma 23 69

CG 28 69

Wg 42 77

S 16 72

N 11 70

PM 0 77

C 14 72

B 18 78

R 78

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
o-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W — E
S

Bar'ter has risen about ·05 on S. coast. For not's to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 21.

Western Australia: Perth, fine, light N. wind, barometer 30·12, temperature 80°; Albany, cloudy, light S.W. wind, barometer 30·20, temperature 70°, slight sea. South Australia reports fine clear weather from all southern stations, cloudy inland at Alice Springs; smooth sea, steady barometers, and light northerly winds on coast; no rain. Victoria: Fine weather, smooth sea, light N.E. winds and calms, and falling barometers on coast, squally and cloudy at Wilson's Promontory; no rain. New South Wales: Fine at generality of stations, cloudy on coast north of Sydney, showery at Newcastle; smooth sea all along coast, winds being light and variable, and barometers rising. For rainfall, &c., see weather map. Queensland: Brisbane, showery, strong S. wind, barometer rising, rain 0·060; Rockhampton, heavy showers, southerly wind, rain 0·300; Cooktown, gloomy, light S.E. wind, rain 0·020. 3 p.m. Observations: Victoria: Barometers falling; Melbourne, N., 13, fine, hot, temperature 97°; Cape Otway, E., hazy, sea smooth, temperature 77°; Portland, S.E., 8, fine, sultry, sea smooth, temperature 85°; Wilson's Promontory, N.E., 23, hazy, moderate sea, temperature 73°. New South Wales: Wentworth, W., fine, temperature 97°; Albury, W., light, fine, temperature 85°; Forbes, calm, fine, temperature 106; Moruya, N.E., 56, cloudy, rough sea, temperature 73°; Sydney, E., 8, cloudy, smooth sea, temperature 71°; Deniliquin, calm, fine, temperature 90°; Goulburn, N.E., fine, temperature 74°; Eden, N.E., 28, fine, light sea, temperature 73° Cape George, N.E., 42, fine, smooth sea, temperature 69°; Newcastle, E., dull, smooth sea; Clarence River, S.S.E., 42, fine, smooth sea, temperature 80°. State of Rivers.—Murrumbidgee: At Wagga, 6 inches above summer level. Murray: At Albury, 1 foot above summer level; at Euston, summer level. Darling: At Wentworth, 1 foot 11 inches above summer level; Pooncarie, summer level; Menindie, 11 feet above summer level; Wilcannia, 11 feet 2 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 21 1881, with NOTES to 3 P.M.

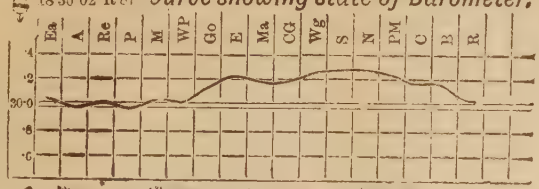
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years . . . . . 51·461.
Average for 22 years from Jan. 1st to January 31 3·478.
Total Rainfall from Jan. 1st to February 21 5·535
Barometers corrected to 32° Fah. and Mean Sea Level

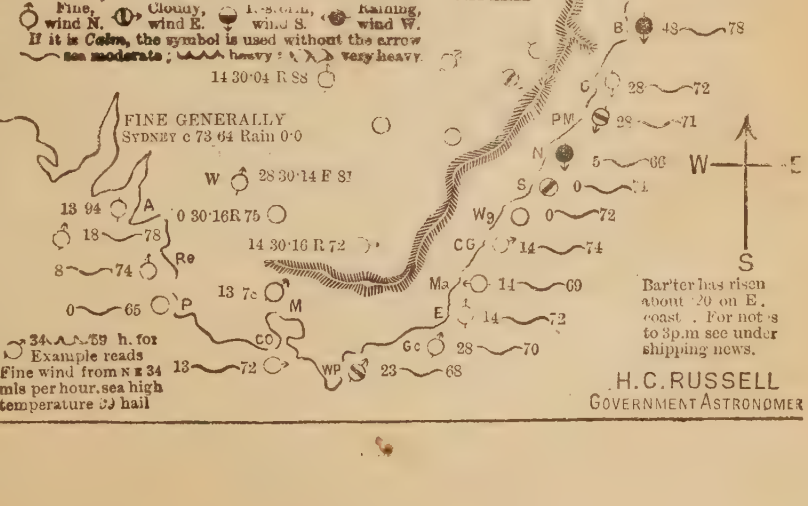
Stations	Wt	M'x	m	R'in
Casino.	b	92	66	0·41
Tenterfild	c	95	59	0
Moree....	b	102	74	0
Grafton...	b	93	72	0
Inverell...	b	83	59	0
Bourke...	b	110	59	0
Narrabri	b	107	66	0
Armidale	b	83	61	0
Tenterfield	b	93	60	0·67
Gunnedah	b	104	58	0
Coonamble	b	102	71	0
Tamworth	b	105	61	0
Coonabarabran	b	100	60	0
P. Macquarie	g	75	68	0
Murrurundi	c	90	68	0
Cassilis...	g	75	66	0
Muswellbrook	c	83	65	0·01
Dubbo	b	97	69	0
Mudgee	b	105	64	0
Maitland.	g	85	68	0
Mill Hill.	b	82		0
Newcastle	p	78	65	0·05
Orange...	b	89	58	0·04
Bathurst.	b	95	57	0
Condobolin	b	81	74	0
Mt Victoria	c	63	52	0·10
Forbes...	b	100	68	0
28 72		R		
Picton	b	74	58	0
Wentworth	b	94	58	0
Young...	b	90	63	0
Wollongong	b	76	60	0
Moss Vale	c	64	55	0
Euston...	b	92	52	0
Goulburn	b	63	55	0
Wagga...	b	92	61	0
Cape Geo.	b	74	61	0
Queanbeyan	b	96	62	0
Deniliquin	b	90	53	0
Moruya...	b	77	59	0
Kiandra...	b	70	50	0
Albury...	b	97	57	0
Bodalla.	.	..	..	..
Cooma...	b	66	51	0
Eden....	b	73	63	0·01
Gabo Isl'd	b	72	65	0

18 30·02 R 87 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W.
If it is Calm, the symbol is used without the arrow
sea moderate ; heavy ; very heavy.

14 30·04 R 88



Bar'ter has risen about ·20 on E. coast. For not's to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 22.

Western Australia: Perth, fine, strong south wind, barometer 30·180, temperature 83°, sea rough. South Australia: Cloudy weather, but no rain either measured or falling, rough sea on south coast, with fresh southerly winds and rising barometers. Victoria reports fine clear weather at Melbourne and Wilson's Promontory, and cloudy westward at Portland and Cape Otway; very hot wind at Wilson's Promontory all night up till 8 a.m. this morning, sea rather rough, wind fresh from S.W., barometers steady, no rain. New South Wales: Fine at generality of stations, broken clouds still hanging about Queensland border and northern part of coast, fine and clear inland, smooth sea, falling barometers, and light northerly winds on coast. Queensland: Brisbane, fine, fresh S. wind, barometer steady; Cape Moreton, fine, fresh S. wind, barometer 30·04, rain 0·200; Cooktown, showery, light N.E. wind, barometer 29·86, rain 1·850, smooth sea. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S., 18, gloomy, temperature 64.; Portland, S., 28, cloudy, smooth sea, temperature 67°; Cape Otway, N.W., 13, cloudy, smooth sea, temperature 61°; Wilson's Promontory, W., 28, cloudy, smooth sea, temperature 67°. New South Wales: Wentworth, S., fine, temperature 97°; Albury, S., 14, fine, temperature 88°; Forbes, calm, fine, temperature 109°; Sydney, N.E., 20, fine, smooth sea, temperature 75°; Port Macquarie, N.E., 14, fine, smooth sea, temperature 58°; Goulburn, W., fine, temperature 91°; Cape George, N.E., 56, dull, moderate sea, temperature 74°; Newcastle; N.E., fine, smooth sea; Clarence River, S.E., fine, smooth sea, temperature 81°. State of Rivers.—Murrumbidgee: At Wagga, 6 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 11 inches above summer level; at Euston, summer level. Darling: At Wentworth, 1 foot 10 inches above summer level; at Pooncarie, 3 feet 6 inches above summer level; at Menindie, 11 feet 5 inches above summer level; at Wilcannia, 11 feet 2 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 22 1881, with NOTES to 3 P.M.

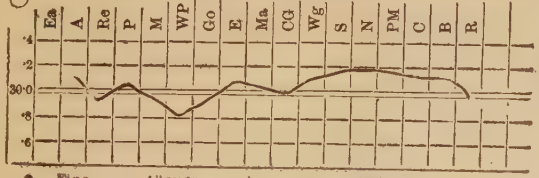
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 22 5·539.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	Mn	R'in
Casino..	g.	87	64	0·03
Tenterfild	g	79	48	0
Moree....	b.	99	75	0
Grafton..	g	85	64	0·29
Inverell..	b	87	64	0
Bourke ..	b	101	77	0
Narrabri	b	108	66	0
Armidale	b	79	61	0
Bendem'r	b	81	60	0·03
Gunned'h	.	..	..	..
Coonamble	b	102	72	0
Tamworth	b	92	59	0
Coonab rn	b	94	56	0
P.Macqrie	g	79	71	0
Murr'undi	b	84	67	0
Cassilis..	b	88	70	0
Mus'br'ok	g	87	66	0
Dubbo...	b	92	72	0
Mudgee..	g	98	65	0
Maitland.	c	83	70	0
Hill End.	b	80	..	0
Newcastle	b	74	66	0
Orange..	b	84	61	0
Bathurst.	b	84	59	0
Condob'lin	b	84	73	0
MtVict'ria	b	74	52	0·01
Forbes...	b	103	67	0
		E		
Pictor	g	96	65	0
Wentw'th	b	105	61	0
Young...	b	88	71	0
Wollgo'ng	b	82	69	0
Moss Vale	b	74	62	0
Euston...	b	111	65	0
Goulburn	b	82	58	0
Wagga...	b	94	73	0
Cape Geo.	b	74	68	0
Queanb'n	b	90	62	0
Deniliq'in	b	99	62	0
Moruya..	b	76	63	0
Kiandra..	b	85	53	0
Albury..	b	98	60	0
Bodalla.	b	83	62	0
Cooma...	b.	72	57	0
Eden....	b.	79	66	0
Gabo Isl'd	b	73	64	0

0 30·05 R 88 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. Lightning, rain, wind S. wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

14 30·01 F 92

FINE GENERALLY
SYDNEY c 77 68 Rain 0·004

W 42 30·10 F 89

3 67 A

0 30·05 F 78

23 64

14 30·07 F 75

18 64 Re

18 73

23 60 P M

34 59 h. for
Example reads
Fine wind from N E 34
mls per hour. sea high
temperature 59 hail

CO

8 63 WP 18 79

Go 34 71

E 14 73

Ma 28 74

CG 42 74

Wg 23 78

S 13 75

N 8 76

PM 28 74

C 28 75

B 23 32

R 75

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
o-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE. M'ls
13-Li't brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
55-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W E S

Bar'ter has fallen about ·20 on E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL.
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 23.

South Australia reports fine weather at southern ports, with steady barometers, light southerly winds, and smooth sea; heavy rain has been experienced in the tropics, the following amounts having fallen since Saturday:—Alice Springs, 6·720 inches; Katherine, over 4 inches; Southport, 3·840 inches; and Powell's Creek, 0·325 inches. Victoria: Cloudy weather, wind light from S., sea smooth, barometers rising; rain at Melbourne 0·020, showery at Portland. New South Wales: Fine inland, cloudy on coast S. of Sydney; raining at Cape St. George, wind light and variable, sea smooth, barometers falling; see map. Queensland Fine weather, fresh S. W. wind, and smooth sea. 3 p.m. Observations.—Victoria: Melbourne, S.W., 18, fine, temperature 68°; Portland, S.E., 28, fine, sea smooth, temperature 68°; Cape Otway, S., 3, cloudy, sea moderate, temperature 71°. New South Wales: Wentworth, S.S.W., fine, temperature 83°; Deniliquin, calm, cloudy, temperature 88°; Albury, S.W., fine, temperature 89°; Goulburn, calm, fine, temperature 80°; Forbes, calm, cloudy, temperature 92°; Eden, E.S.E., 28, dull, light sea, temperature 70°; Moruya, S.E., 20, cloudy, moderate sea, 69°: Cape George, S., 20, like rain, sea smooth, temperature 61°; Sydney, S., 14, cloudy, smooth sea, temperature 72°; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., 42, fine, smooth sea, temperature 79; Clarence River, S.E., 14, fine, sea smooth, temperature 82°. State of Rivers.—Murrumbidgee, at Wagga, 3 inches above summer level. Murray: At Albury, 1 foot above summer level. Darling: At Wentworth, 1 foot 10 inches above summer level; at Pooncarie, 4 feet 9 inches above summer level; at Menindie, 7 feet 8 inches above summer level; at Wilcannia, 11 feet 9 inches above summer level.

WEATHER MAP.

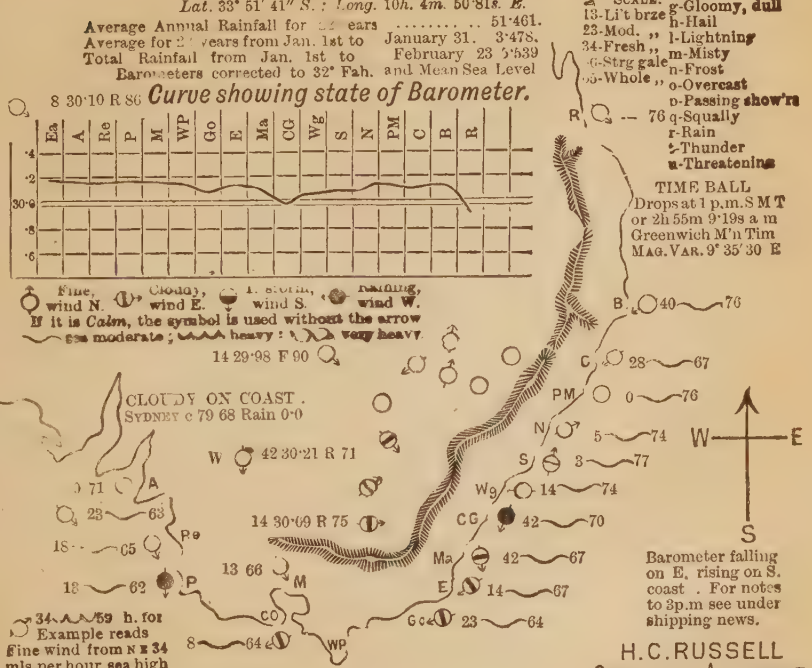
COMPILED from TELEGRAMS for 9 A.M., FEB'RY 23 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* : *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 23 5·539
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	M'n	R'in
Casino..	.	..	..	..
Tenterfild	b	76 51	0	
Moree....	b	100 73	0	
Grafton..	b	88 54	0	
Inverell..	b	85 58	0	
Bourke ..	b	105 78	0	
Narrabri	b	108 69	0	
Armidale	b	79 60	0	
Bendem'r	b	85 59	0	
Gunned'h	b	95 58	0	
Coonam'le	b	103 68	0·06	
Tamworth	b	103 57	0	
Coonab rn	b	95 63	0·11	
P.Macqrie	b	81 64	0	
Murr'undi	b	88 67	0	
Cassilis..	b	93 62	0	
Mus'br'ok	.	..	..	..
Dubbo...	b	93 72	0	
Mudgee .	b	98 63	0	
Maitland.	b	88 67	0	
Hill End.	b	86 ..	0	
Newcastle	b	86 61	0	
Orange..	b	87 63	0	
Bathurst.	b	88 [illegible]	0·11	
Condob'ln	c	84 74	0	
MtVict'ria	b	85 64	0·14	
Forbes. .	b	108 72	0	
13 68		R		
Pictor	g	88 63	0	
Wentw'th	b	98 65	0	
Young...	c	91 73	0	
Wollgo'ng	b	80 70	0	
Moss Vale	b	83 62	0	
Euston..	.	..	..	..
Coulburn	b	94 60	0	
Wagga...	g	101 77	0	
Cape Geo.	g	79 67	0	
Queanb'n	b	96 56	0	
Deniliq'in	.	..	..	..
Moruya..	g	78 66	0	
Kiandra..	c	84 52	0	
Albury..	g	104 61	0	
Bodalla..	g	88 61	0	
Cooma...	c	73 60	0	
Eden....	g	79 64	0·01	
Gabo Isl'd	c	76 63	0	



METEOROLOGICAL REPORTS.—FEBRUARY 24.

South Australia reports cloudy weather, with light southerly winds and rising barometers, smooth sea on coast; heavy rains have fallen inland in tropics, over 3 inches being measured at Catherine, and 2·830 at South Port. Victoria: Cloudy all round coast, but without rain, sea smooth, winds fresh from W., barometers falling. New South Wales: Fine at generality of stations, cloudy on coast at Port Macquarie, Newcastle, and Moruya, light rains measured at southern stations (see map), smooth sea, light N. winds and calms, and falling barometers on coast. Queensland: fine fresh S.E. wind, rising barometer, and smooth sea. 3 p.m. observations:—Victoria: Barometers falling slowly. Melbourne, S.W., 13 cloudy, temperature 70°; Cape Otway, S.W., 18, showery, rough sea, temperature 59°; Portland, W., 28, squally with rain, moderate sea, temperature 63°; Wilson's Promontory, W., 34 squally, with rain, smooth sea, temperature 59°. New South Wales: Wentworth, S.S.W., cloudy, temperature 71°; Forbes, calm cloudy, temperature 96°; Sydney, E., 12, fine, smooth sea, temperature 75°; Port Macquarie, N.E., 42, hazy, smooth sea, temperature 78°; Deniliquin, S.W., fine, temperature 9°; Goulburn, calm, fine, temperature 81°; Cape George, N., 14, heavy storm, smooth sea, temperature 75°; Newcastle, N.E., fine, smooth sea; Clarence River, S.E., 28, fine, smooth sea, temperature 82°. At 8 h. 3 m. p.m. a storm reached Sydney from south, the wind was moderate, but the lightning was remarkably vivid and constant. 0·953 of rain fell in 36 minutes, and during part of this time the fall was at the rate of 2 inches per hour. State of rivers: Murrumbidgee, at Wagga, 3 inches above summer level; Balranald, summer level. Murray, at Albury, 1 foot 1 inch above summer level; at Euston, summer level. Darling, at Wentworth, 2 feet above summer level; at Pooncarie, 5 feet 3 inches above summer level; at Menindie, 12 feet above summer level; Wilcannia, 10 feet 11 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 24 1881, with NOTES to 3 P.M.

Sydney Observatory.

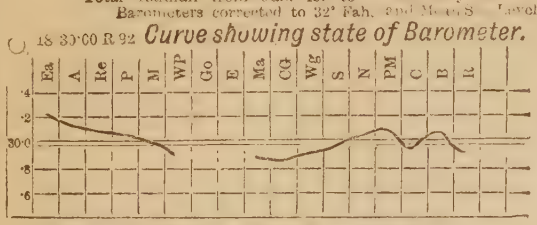
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 24 5·639
Barometers corrected to 32° Fah. and Mean Sea Level

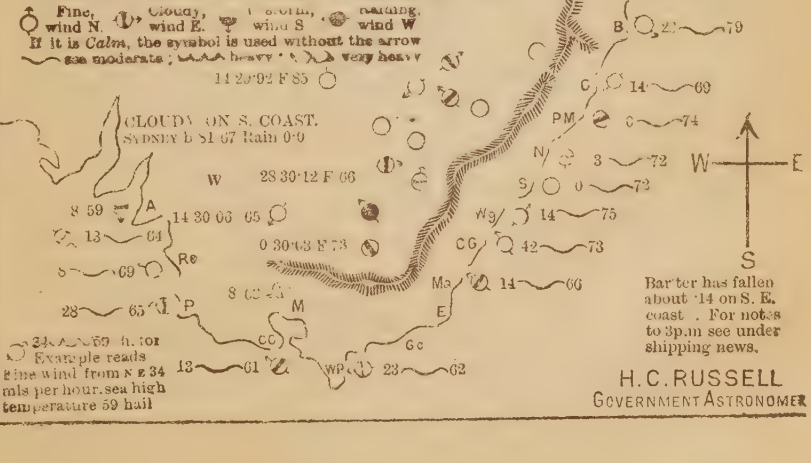
Stations.	wt	M'x	Mn	R'in
Casino..	b	90 61		0·07
Tenterfild	b	78 51		0
Moree....	g	99 72		0
Grafton..	b	84 62		0
Inverell..	b	84 64		0
Bourke ..	b	108 80		0·04
Narrabri	g	108 71		0
Armidale	b	81 56		0
Bendem'r	b	88 60		0
Gunned'h	o	100 66		0·04
Coonam'le	c	103 70		0·01
Tamworth	c	103 64		0
Coonab'rn	b	98 63		0·34
P.Macqrie	b	81 67		0
Murr'umdi	c	91 69		0
Cassilis..	g	97 65		0
Mus'br'ok	g	98 67		0
Dubbo...	b	93 73		0
Mudgee .	b	101 67		0
Maitland.	g	90 70		0
Hill End.	b	85 66		0
Newcastle	g	88 61		0
Orange..	b	85 60		0·10
Bathurst.	b	90 59		0·13
Condob'lin	b	83 73		0·11
Mt Vic'ria	b	79 51		0
Forbes. .	b	93 66		0
18 63		E		
Victor	b	81 60		0·01
Wentw'th	g	95 62		0·06
Young...	c	89 66		0·07
Wollgo'ng	b	80 65		0
Moss Vale	b	74 62		0·05
Euston...	b	100 63		0
Goulburn	b	76 59		0·01
Wagga...	g	97 67		0·42
Cape Geo.	b	72 62		0·05
Queanb'n	c	88 63		0·20
Deniliq'in	o	94 58		0·20
Moruya..	g	73 63		0
Kiandra..	t	53 40		2·50
Albury..	g	105 61		0·40
Bodalla.	c	77 59		0·06
Cooma...	rt	75 51		0·35
Eden....		..	..	..
Gabo Isl'd		..	..	..

WIND SCALE.
1-Lt'st brze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening



Fine, wind N. Cloudy, wind E. Showers, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy



TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Bar'ter has fallen about ·14 on S. E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—FEBRUARY 25.

South Australia: Reports gloomy, threatening weather, but no rain fallen yet at Southern station, smooth sea, rising barometers, and fresh S. winds on S. coast; heavy rains have again fallen in tropics north of Tennant's Creek; at Port Darwin 1·76 inch recorded. Victoria: Weather cloudy, with light southerly winds, and rising barometers; rough sea at Cape Otway; rain at Melbourne 0·02, none at other stations. New South Wales: Cloudy at majority of stations, rain in E. of colony, on coast, and mountains—for amounts, &c., see weather map; smooth sea, steady barometers, and light S. winds on coast. Queensland: Fine light S. wind, rising barometers, and smooth sea. 3 p.m. Observations. —Victoria: Barometers rising slowly; Melbourne, E., 23, cloudy, temperature 64°; Cape Otway, E., 15, cloudy, rough sea, temperature 63°; Portland, S., 28, cloudy, slight sea, temperature 64°. New South Wales: Wentworth, S.E., fine, temperature 69°; Albury, W., cloudy, temperature 70°; Forbes, calm, fine, temperature 96°; Moruya, S.E., 20, cloudy, moderate sea; Sydney, S., 20, dull, smooth sea, temperature 65°; Port Macquarie, S.S.W., 28, showery, smooth sea, temperature 75°; Deniliquin, S., 12, fine, temperature 75°; Goulburn, N.E., fine, temperature 68°; Cape George, S.E., 12, cloudy, moderate sea, temperature 64°; Newcastle, S.E., fine, smooth sea; Clarence River, E., 20, smooth sea, temperature 82°. The rise in the Southern barometers, shown in the 9 a.m. curve, still continues, and this afternoon barometers on the east coast are rising. It will be seen by the rain reports that the heavy rain which passed over Sydney last evening only affected a part of the coast. State of the Rivers.—Murrumbidgee: At Wagga, 3 inches above summer level; at Balranald, [illegible] inches (rising) above summer level. Murray: At Albury, [illegible] above summer level; at [illegible], summer level. Darling: at Wentworth, 2 feet 6 inches above summer level; at [illegible] 3 inches above [illegible]; at Menindie, 12 feet above summer level; at W[illegible] 10 inches above [illegible].

WEATHER MAP.

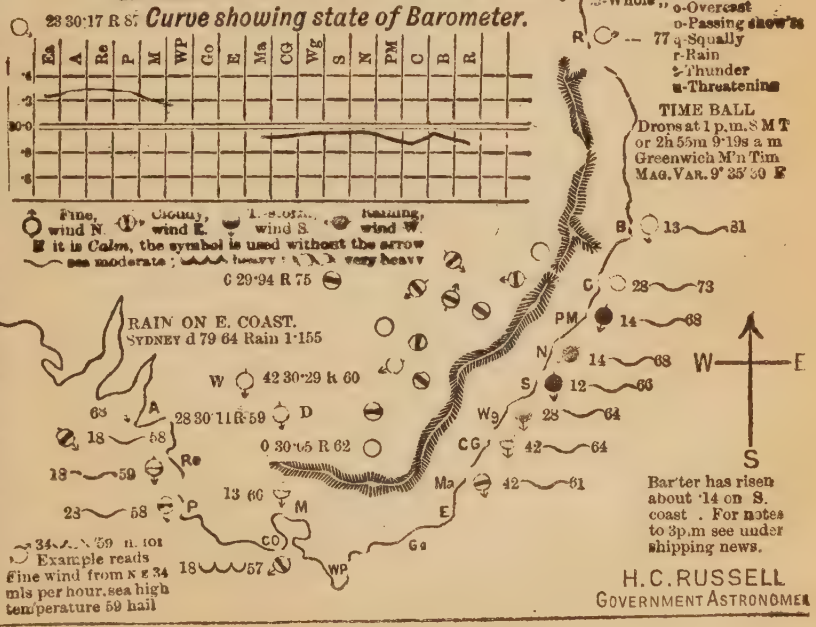
COMPILED from TELEGRAMS for 9 A.M., FEB'RY 25 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to January 31. 3·478.
Total Rainfall from Jan. 1st to February 26 6·694.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	Mn	R'in
Casino..	b	93 59		0
Tenterfild	g	83 54		0
Moree....	g	97 76		0
Grafton..	b	94 68		0
Inverell..	g	83 62		0
Bourke ..	c	108 77		0·06
Narrabri	g	101 64		0·32
Armidale	g	81 55		0·07
Bendem'r	r	86 62		0·44
Gunned'h	r	93 56		0 58
Coonam'le	c	97 65		0 64
Tamworth	r	93 60		0·26
Coonab rn	g	89 61		0·70
P.Macqrie	p	81 68		0·03
Murr'undi	g	97 67		0
Cassilis..	g	84 68		0·67
Mus'br'ok	g	97 67		0·12
Dubbo...	c	91 73		0·34
Mudgee..	g	96 66		0·21
Maitland.	r	89 71		0·30
Hill End.	c	83 63		0·10
Newcastle	p	83 66		0·41
Orange..	b	83 61		0·31
Bathurst.	g	86 62		1·45
Condob'ln	.	..	..	.
Mt Vict'ria	g	80 55		0·05
Forbes.	b	98 65		0
18 69)				
Picton	g	90 64		0·28
Wentw'th	b	79 54		0
Young...	b	89 61		0·06
Wollgo'ng	p	83 63		1 30
Moss Vale	c	85 57		0·22
Euston...	b	84 55		0
Goulburn	b	89 56		0·38
Wagga...	b	90 59		0
Cape Geo.	g	72 64		0·02
Queanb'n	c	85 61		0·36
Deniliq'in	b	83 51		0
Moruya...	g	77 61		0.08
Kiandra..	c	54 35		2·70
Albury .	b	88 54		0
Bodalla.	g	83 52		0
Cooma...	c	54 38		0 05
Eden....	.	..	..	..
Gabo Isl'd	.	..	..	..



METEOROLOGICAL REPORTS.—FEBRUARY 26.

South Australia: Reports broken clouds on S. coast, sea smooth, wind light from S.E. and E., barometers rising; heavy rains continue in tropics. Victoria: Cloudy round coast, with light southerly winds, rising barometers, and smooth sea. No rain. New South Wales: Weather fine at Southern stations, still cloudy up N. and N.W.; heavy rain at Cassilis, smooth sea, rising barometers, and fresh S. winds on coast. (For rainfall, &c., see weather map). Queensland: Cloudy, sultry and gloomy, light S. wind, rising barometer, and moderate sea. 9 p.m. Observation.—Victoria: Barometers steady; Cape Otway, S.S.W., 3, gloomy, moderate sea, temperature 66°; Portland, S.S., 26, cloudy, smooth sea, temperature 65°; Wilson's Promontory, W.S.W., 18, fine, smooth sea, temperature [illegible]. New South Wales: Wentworth, S., fine, temperature [illegible]; Albury, W., fine, temperature 76; Forbes, calm, fine, temperature 65°; Moruya, S.E., 20, fine, sea moderate, temperature [illegible]; Sydney, S., 20, sea smooth, temperature 67°; Port Macquarie, [illegible], fine, sea smooth, 73°; Deniliquin, E.N.E., fine, temperature [illegible]; Grafton, N.E., fine, temperature 65°; Byron, N., fine, sea smooth, temperature 68°; Cape George, S.E., 20, cloudy, sea moderate, temperature 65°; Newcastle, S.E., fine, sea smooth. State of Rivers: Murrumbidgee, at Wagga, 3 inches above summer level; at [illegible], 1 foot above summer level; [illegible], 1 foot above summer level; at Euston, 1 foot above summer level. Darling, at Wentworth, 3 feet above summer level; at Pooncarie, 5 feet above summer level; at Menindie, 12 feet above summer level; at Wilcannia, 10 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 26 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 22 years from Jan. 1st to January 31. 3·478
Total Rainfall from Jan. 1st to February 26 6·735
Barometers corrected to 32° Fah. and Mean Sea Level.

Stations.	W'b.	M'x	Bm	R'in
Casino..	c	97 65	3·15	
Tenterfild	g	81 53	0·26	
Moree....	b	87 72	0	
Grafton..	b	89 62	0·53	
Inverell..	b	80 65	0	
Bourke ..	c	96 51	0	
Narrabri	b	95 59	0	
Armidale	g	72 55	0	
Bendem'r	b	77 57	0	
Gunned'h	b	85 50	0	
Coonamble	c	90 61	0	
Tamworth	b	88 53	0·08	
Coonab rn	b	89 54	0	
P. Macqrie	b	76 62	1·82	
Murr'undi	b	77 60	0·13	
Cassilis..	b	82 60	0	
Mus'br'ok	c	78 55	0	
Dubbo...	b	85 62	0	
Mudgee .	b	83 52	0	
Maitland.	b	71 65	0·20	
Hill End.	b	79 55	0	
Newcastle	g	75 60	0·26	
Orange..	b	75 52	0	
Bathurst.	h	81 54	0	
Condob'lin	b	71 66	0	
Mt Vict'ria	cf	59 47	0·05	
Forbes. .	b	99 63	0	
To 71		E		
Port Pictor	g	62 53	0·02	
Wentw'th	b	77 53	0	
Young...	b	81 56	0	
Yollgo'ng	c	60 58	0	
Moss Vale	c	66 50	0	
Euston...	b	78 57	0	
Goulburn	b	72 45	0	
Wagga...	b	80 56	0	
Cape Geo.	b	65 59	0	
Queanb'n	b	90 52	0	
Deniliq'in	b	74 57	0	
Koruya..	b	73 52	0	
Kiandra..	b	56 37	0	
Albury..	b	82 48	0	
Bodalla.	b	85 43	0	
Moama...	b	56 40	0	
Eden....	b	76 54	0	
Cabo Isl'd	b	65 54	0	

WIND SCALE.
13-Lt brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale
56-Whole ,,

WEATHER.
a-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

18 30·10 R 81 *Curve showing state of Barometer.*

Es A Re P M WP Go E Ma CG Wg S N PM C B R

Fine, wind N; Cloudy, wind E; Rain, wind S; Threatening, wind W.
If it is *Calm*, the symbol is used without the arrow.
sea moderate; heavy; very heavy.

28 30·02 R 76

CLOUDY ON COAST.
SYDNEY g 67 60 Rain 0·041

W 28 30·31 R 60

14 30 22 R 63 D

14 30·27 R 62

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′ 0 E

W E S

Bar'ter has risen about ·28 on E. coast. For notes to 3p.m see under shipping news.

34 59 h. tor
Example reads
Fine wind from N E 34 mls per hour, sea high temperature 59 hail

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—February 28.

Western Australia: Perth, fine, barometer 29·83, temperature 93°, wind S.E., 13 miles, sea smooth; Albury, fine, barometer 30·00, temperature 81°, sea smooth. South Australia: Reports fine, clear weather, broken clouds on coast at Cape Borda, sea smooth, wind light from N.E., barometers steady; rain in tropics has not reached farther S. than Tennant's Creek. Victoria: Weather fine and clear, light easterly wind, steady barometers, and smooth sea; no rain, heavy dews fell last night. New South Wales: Fine inland and S. of Wollongong, cloudy on coast northwards, raining at Port Macquarie, smooth sea, falling barometers, and light S.W. and N.E. winds all down coast. Queensland: Brisbane, cloudy, with strong E. wind and moderate sea. 3 p.m. Observations.—Victoria: Melbourne, S., 13, fine, temperature 90.; Portland, E.S.E., 13, fine, smooth sea, temperature 80°; Cape Otway, E., 13, fine, smooth sea, temperature 73°; Wilson's Promontory, N.E., 23, cloudy, moderate sea, temperature 74°. New South Wales: Wentworth, N.N.W., fine, temperature 96°; Deniliquin, N.E., fine, temperature 87°; Albury, calm, fine, temperature 80°; Goulburn, N.E., fine, temperature 71°; Forbes, calm, fine, temperature 98°; Eden, E.N.E., 28, fine, light sea, temperature 70°; Moruya, N.E., 42, fine, moderate sea, temperature 72°; Cape George, N.E., fine, moderate sea, temperature 72°; Sydney, E., 8, fine, smooth sea, temperature 71°; Newcastle, S.E., fine, smooth sea; Port Macquarie, S.E., 28, fine, smooth sea, temperature 72°; Clarence River, S.E., fine, moderate sea, temperature 75°. State of Rivers: Murrumbidgee: At Balranald, 9 inches above summer level. Murray: At Albury, 1 foot above summer level; at Euston, 1 foot 9 inches above summer level. Darling: At Wentworth, 4 feet above summer level; Pooncarie, 8 feet 6 inches above summer level; Menindie, 12 feet above summer level; Wilcannia, 10 feet 3 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., FEB'RY 28 1881, with NOTES to 3 P.M.

Sydney Observatory.

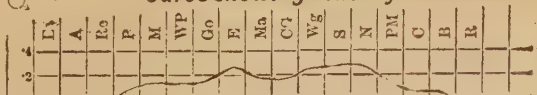
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 22 years from Jan. 1st to January 31. 3·478
Total Rainfall from Jan. 1st to February 28 6·737

Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wt.	M'X	Bar.	R'fall
Sino..	c	80 62	0·63	
Waterfild	g	62 47	0	
Tree....	b	78 69	0	
Grafton..	b	83 62	0	
Kerell..	b	81 54	0	
Clarke ..	b	83 64	0	
Warrabri	b	100 59	0	
Armidale	g	70 53	0	
Bundem'r	b	76 50	0	
Gunned'h	b	81 51	0	
Bonamle	b	87 59	0	
Camworth	b	87 51	0	
Bonab'rn	b	80 50	0	
Macqrie	p	76 63	0·09	
Warr'undi.	b	71 57	0	
Cassilis..	g	76 54	0	
Glus'br'ok	h	79 55	0	
Dubbo...	b	87 61	0	
Gudgee..	b	86 55	0	
Willand..	c	78 62	0	
Hill End.	b	71 56	0	
Newcastle	g	78 63	0	
Grange.	b	74 50	0	
Arthurst.	h	74 48	0	
Condob'lin	b	70 62	0	
Port Victoria	g	64 50	0	
Corbes.	b	90 67	0	
13 72	E			
Pictor	g	78 59	0	
Bentw'th	b	90 65	0	
Young...	b	89 59	0	
Collgo'ng	c	87 61	0	
Moss Vale	g	69 54	0	
Euston...	b	103 57	0	
Goulburn	b	75 51	0	
Tagga...	b	85 53	0	
Cape Geo.	b	74 63	0	
Queanb'n	b	86 54	0	
Beniliq in	b	90 55	0	
Moruya..	b	76 57	0	
Liandra..	b	60 42	0	
Albury .	b	91 50	0	
Bodalla.	b	85 49	0	
Bonna...	c	61 46	0	
Eden....	b	75 61	0	
Cabo Isl'd	b	76 64	0	

13 30·01 R 75 *Curve showing state of Barometer.*



wind N wind E. wind S. wind W.

If it is *Calm*, the symbol is used without the arrow

moderate; very heavy

28 30·08 R 77 B.

CLOUDY E ON COAST.
SYDNEY c 73 63 Rain 0·002

W 28 30·23 F 80

28 30 18 F 74 D

28 30 24 F 60

8 79

WIND SCALE.

13-Lt brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale
5-Whole ,,

WEATHER.

b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E.

B 65 70

G 28 69

PM 14 67

N 7 70

S 5 70

W9 14 70

CG 28 73

Ma 14 70

E 14 71

Go 23 68

WP 23 65

13 72

Ly 13 87

A 13 78

Ec 8 75

P 9 65

M

CO

W E S

Bar'ter has fallen about ·05 on E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER.

METEOROLOGICAL REPORTS.—MARCH 1.

South Australia reports fine, clear weather inland; cloudy at Adelaide and Cape Borda; no rain, smooth sea, rising barometers and moderate sea on coast. Victoria: Cloudy round coast, sea smooth, barometers steady, wind light from N., no rain fallen. New South Wales: Fine inland, cloudy on coast N. of Newcastle, sea smooth, barometers falling, wind light from N. and N.E.; showery at Clarence Heads. (See weather map.) Queensland: Fine at Brisbane; strong S.E. wind, rising barometers, and moderate sea. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S.S.W., 8, thunder showers, temperature 77°; Portland, S., 18, cloudy, smooth sea, temperature 70°; Cape Otway, N.W., 13, dense fog, smooth sea; Wilson's Promontory, W., 3, gloomy, smooth sea, temperature 78°. New South Wales: Wentworth, N.N.W., fine, temperature 95°; Deniliquin, calm, fine, temperature 89°; Albury, calm, fine, temperature 82°; Goulourn, calm, fine, temperature 74°; Forbes, calm, fine, temperature 96°; Eden, N.E., fine, smooth sea, temperature 74°; Moruya, N.E., 42, fine, moderate sea, temperature 73°; Cape George, N.E., 28, fine, smooth sea, temperature 7[illegible]°; Sydney, E.N.E., 8, fine, smooth sea, temperature 73°; Newcastle, N.E., fine, smooth sea; Port Macquarie, E., 14, fine, smooth sea, temperature 74°; Clarence River, S., 42, showery, moderate sea, temperature 73°. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 6 inches above summer level; at Balranald, 6 inches above summer level. Murray: At Albury, 1 foot above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 4 feet 6 inches above summer level; at Pooncarie, 6 feet 10 inches above summer level; at Menindie, 12 feet above summer level; at Wilcannia, 10 feet 3 inches above summer level.

WEATHER MAP.

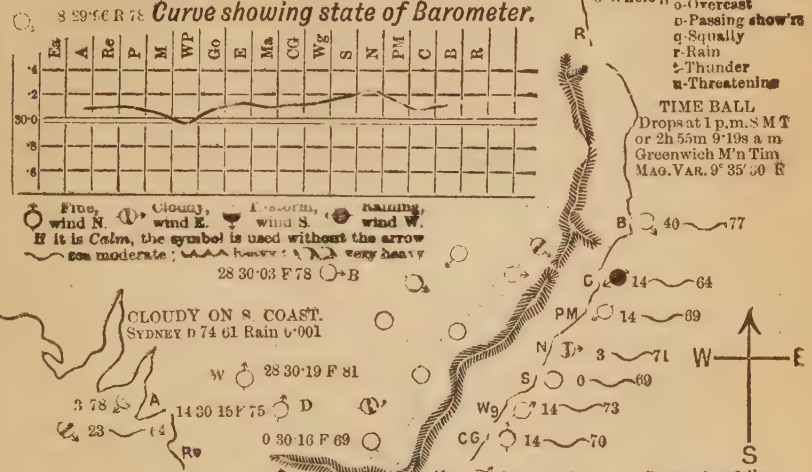
COMPILED from TELEGRAMS for 9 A.M., MARCH 1 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 1... 6 738
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	wt	M'x	Mn	R'in
Casino..	c	78 59	0·11
Tenterfild	b	76 46	0
Moree....	b	93 67	0
Grafton..	b	81 61	0
Inverell..	b	80 53	0
Bourke ..	b	89 70	0
Narrabri	b	100 60	0
Armidale	g	71 50	0
Bendem'r	b	75 48	0
Gunned'h	b	100 47	0
Coonamble	b	91 61	0
Tamworth	b	89 50	0
Coonab'rn	b	83 49	0
P.Macqrie	b	75 61	0
Murr'undi	b	76 55	0
Cassilis..	b	79 50	0
Mus'br'ok	b	83 54	0
Dubbo...	b	84 62	0
Mudgee .	b	90 52	0
Maitland.	b	77 60	0
Hill End.	b	70 56	0
Newcastle	g	80 61	0
Orange..	b	73 50	0
Bathurst.	b	76 49	0
Condob'lin	b	75 66	0
Mt Vict'ria	b	71 47	0
Forbes...	b	102 69	0
		E	
Pictoi	b	77 52	0
Wentw'th	b	98 63	0
Young...	b	84 60	0
Wollgo'ng	b	73 67	0
Moss Vale	b	73 51	0
Euston...	b	100 61	0
Goulburn	b	80 48	0
Wagga...	b	86 65	0
Cape Geo.	b	74 56	0
Queanb'n	g	88 59	0
Deniliq'in	b	91 58	0
Moruya..	b	75 63	0
Kiandra..	b	61 36	0
Albury..	b	94 57	0
Bodalla.	b	61 53	0
Cooma...	c	60 45	0·03
Eden....	b	75 61	0
Gabo Isl'd	b	72 64	0



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 2.

South Australia: Fine clear weather, with light southerly winds and calms; smooth sea and steady barometers on coast, no rain. Victoria: Cloudy weather round coast, foggy at Cape Otway, sea smooth, barometers steady, wind light and variable; no rain. New South Wales: Fine clear weather throughout colony, smooth sea, falling barometers, and fresh N. winds on coast; no rain. Queensland: Cloudy, strong S.E. wind, falling barometers and smooth sea; rain at Rockhampton, 1·100 inch. 3 p.m. Observations.—Victoria: Barometers falling; Melbourne, S.S.E., 18, cloudy, temperature 73°; Cape Otway, S.E., 3, foggy, sea smooth, temperature 70°; Portland, S.E., 18, cloudy, smooth sea, temperature 68°; Wilson's Promontory, W., 8, cloudy, hazy, smooth sea, temperature 72°. New South Wales: Albury, calm, dull, temperature 77°; Forbes, calm, fine, temperature 101°; Moruya, N., 20, severe thunderstorm, moderate sea, temperature 70.; Sydney, E.N.E., 12, fine, smooth sea, temperature 74°; Port Macquarie, E., 14, fine, smooth sea, temperature 76°; Goulburn, calm, fine, temperature 75°; Eden, N., 20, fine, little easterly sea, temperature 74°; Cape George, N.E., 42, fine, smooth sea, temperature 71°; Newcastle, E., fine, smooth sea. Clarence River, S.E., fine, smooth sea, temperature 76°. State of Rivers.—Murumbidgee: At Wagga, 1 foot 6 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury 1 foot above summer level; at Euston, 2 feet 3 inches above summer level. Darling: At Wentworth, 5 feet above summer level; at Pooncarie, 7 feet above summer level; at Menindie, 11 feet 10 inches above summer level; at Wilcannia, 16 feet above summer level.

WEATHER MAP.

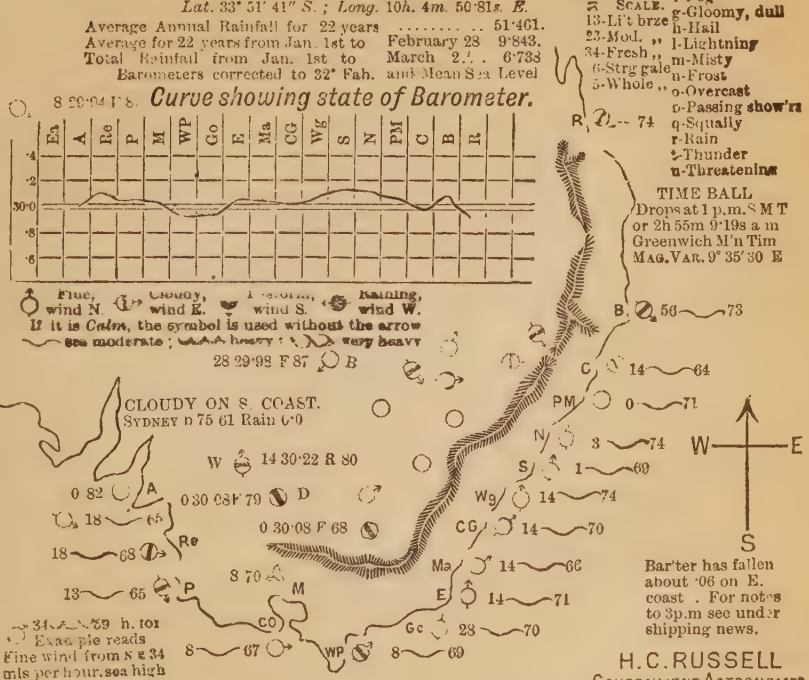
COMPILED from TELEGRAMS for 9 A.M., MARCH 2 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 2. . 6·738
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'h	M'x	M'n	R'in
Casino..	c	76 63	6·24	
Tenterfild	g	69 50	0	
Moree....	b	95 73	0	
Grafton..	b	82 61	0	
Inverell..	b	80 55	0	
Bourke ..	b	91 61	0	
Narrabri	b	100 65	0	
Armidale	b	71 50	0	
Bendem'r	b	71 42	0	
Gunned'h	b	82 48	0	
Coonamble	b	93 60	0	
Tamworth	b	93 52	0	
Coonab'rn	c	81 47	0	
P.Macquie	b	76 62	0	
Murr'undi	b	79 55	0	
Cassilis..	b	82 52	0	
Mus'br'ok	b	84 53	0	
Dubbo...	b	85 65	0	
Mudgee .	b	97 60	0	
Maitland.	b	84 59	0	
Hill End.	b	74 55	0	
Newcastle	b	88 64	0	
Orange..	b	70 53	0	
Bathurst.	b	81 50	0	
Condob'ln	b	72 62	0	
MtVict'ria	b	79 49	0	
Forbes. .	b	103 67	0	
	B.			
Picton	b	77 52	0	
Wentw'th	b	101 72	0	
Young...	b	85 64	0	
Wollgo'lng	b	80 57	0	
Moss Vale	b	75 55	0	
Euston...	g	106 69	0	
Goulburn	b	85 51	0	
Wagga...	o	89 60	0	
Cape Geo.	b	73 59	0	
Queanb'n	b	86 60	0	
Dentliq'in	g	99 62	0	
Moruya..	b	75 59	0	
Kiandra..	c	65 41	0·25	
Albury..	g	96 60	0	
Bodalla..	b	84 55	0	
Cooma...	c	67 57	0	
Eden....	b	75 63	0	
Gabo Is'd	c	74 64	0	



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 3.

South Australia: Fine, clear weather, light southerly winds, steady barometers, and smooth sea, no rain fallen. Victoria: Cloudy round coast, but without rain, sea smooth, wind fresh from S. and W., barometers steady. New South Wales: Fine clear weather prevails over the whole of the colony, calm inland, light northerly winds, rising barometers and smooth sea on coast. Queensland: Brisbane, gloomy and threatening, strong S.W. wind, and rising barometer; rain, 0.[illegible]; sea smooth; Cooktown, sultry but clear, light W. wind, rain, 0.120. 3 p.m. Observations.—Victoria: Melbourne, S.W., 15, gloomy, temperature 63°; Cape Otway, W., 8, fine, very smooth, temperature 56°. New South Wales: Wentworth, S., fine, temperature 87°; Albury, W., fine, temperature 81°; Moruya, W., [illegible], thunderstorm, sea moderate, temperature 74°; Sydney, [illegible], fine, sea smooth, temperature 76°; Port Macquarie, E., 14, fine, sea smooth, temperature 77°; Deniliquin, calm, cloudy, temperature 91°; Goulburn, calm, fine, temperature 75°; Eden, N.E., 25, fine, light, temperature 77°; Cape George, N.E., 12, cloudy, sea smooth, temperature 75°; Newcastle, N.E., [illegible], fine, sea smooth; Clarence River, S.E., 42, fine, sea smooth, temperature 76°. State of Rivers. Murrumbidgee: At Wagga, 1 foot above summer level; at Hay, summer level; at Balranald, summer level. Murray: at Albury, 1 foot above summer level; at Euston, 2 feet 3 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 3 1881, with NOTES to 3 P.M.

Sydney Observatory.

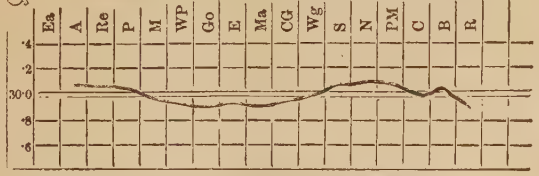
Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 3 . 6·738
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	Mn	R'in
Casino..	b	82 59	0	
Tenterfild	c	69 59	0	
Moree....	b	92 69	0	
Grafton..	b	86 61	0	
Inverell..	b	80 56	0	
Bourke ..	n	94 62	0	
Narrabri	b	103 51	0	
Armidale	b	74 50	0	
Bendem'r	b	81 49	0	
Gunned'h	b	93 51	0	
Coonam'le	b	91 61	0	
Tamworth	b	94 52	0	
Coonab rn	b	86 47	0	
P.Macqrie	b	77 61	0	
Murr'undi	b	79 55	0	
Cassilis..	b	85 53	0	
Mus'br'ok	b	85 55	0	
Dubbo...	b	84 70	0	
Mudgee .	b	95 60	0	
Maitland.	b	83 66	0	
Hill End.	b	57 51	0	
Newcastle	b	79 61	0	
Orange..	b	76 54	0	
Bathurst.	b	82 58	0	
Condob'lin	b	78 68	0	
MtVict'ria	b	72 51	0	
Forbes...	b	103 68	0	
		E		
Pictor	b	78 57	0	
Wentw'th	b	93 64	0	
Young...	b	87 63	0	
Wollgo'ng	b	80 65	0	
Moss Vale	b	78 58	0	
Euston...	b	91 62	0	
Gouiburn	b	86 52	0	
Wagga...	b	89 66	0	
Cape Geo.	b	74 61	0	
Queanb'n	b	84 57	0	
Deniliq'in	b	94 64	0	
Moruya..	b	76 54	0·10	
Kiandra..	b	66 43	0	
Albury..	b	89 60	0	
Bodalla.	b	83 57	0	
Cooma...	b	64 49	0	
Eden....	b	76 61	0	
Gabo Isl'd	b	73 62	0	

8 29·99 R 80

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

8 29·94 F 85

CLOUDY ON S. COAST.
SYDNEY D 76 63 Rain 0·0

W 28 30·16 F 70

13 60 A 14 30 C0 78 D

0 30·03 F 72

18 64 Re

28 62 P

8 66 M

CO

3 60 WP

34 59 h. tor
Example reads
Fine wind from N E 34
mls per hour. sea high
temperature 59 hail

R 75

B 48 74

C 14 65

PM 14 63

N 5 72

S 8 74

Wg 14 75

CG 28 70

Ma 14 65

E 28 74

Go 8 71

WEATHER.

b-Blue sky .
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W E S

Bar'ter has fallen about ·08 on S. E. coast . For not's to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 4.

South Australia: Reports fine clear weather, without rain or clouds, smooth sea, light N.E. and N.W. winds and steady barometers at southern coast stations. Victoria: Cloudy at stations round coast, sea smooth, barometers rising, wind light from S., no rain. New South Wales: Fine inland, broken clouds on coast, especially up north, showery at Clarence River Heads, sea smooth, wind light and very variable, barometers rising; (for rainfall, &c., see weather map). Queensland: Brisbane, fine, fresh, S.W. wind, rising barometers, and moderate sea; rain, 0.030; Rockhampton, 29·79; 84·, heavy dew. 3 p.m. Observations.—Victoria: Melbourne, barometers steady, S., 18, cloudy, temperature 66·; Cape Otway: S.E., 3, cloudy, smooth sea, temperature 70·; Wilson's Promontory, S.W., cloudy, sea smooth, temperature 65·. New South Wales: Wentworth, S.W., fine, temperature 77·; Deniliquin, S.S.W., 14, fine, temperature 81·; Albury, S., fine, temperature 82·; Goulburn, calm, fine, temperature 78·; Forbes, calm, fine, hot, temperature 101·; Moruya, E., 14, fine, smooth sea, temperature 74·; Cape George, S.E., 28, fine, smooth sea, temperature 74·; Sydney, E.N.E., 23, cloudy, smooth sea, temperature 75·; Port Macquarie, N.E., fine, smooth sea, temperature 78·; Clarence River, E., 28, showery, smooth sea, temperature 75·. State of Rivers.—Murrumbidgee: At Wagga, 1 foot above summer level. Murray: At Albury, 1 foot above summer level. Darling: At Wentwoth, 5 feet 6 inches above summer level; at Pooncarie, 7 feet 10 inches above summer level; Menindie, 11 feet 7 inches above summer level; Wilcannia, 10 feet 2 inches above summer level.

Stations.	wt	mx	mn	rain
Casino..	c	87	60	0
Tenterfield	g	75	45	0
Moree....	b	97	71	0
Grafton..	g	82	63	0
Inverell..	b	80	55	0
Bourke ..	b	97	63	0
Narrabri	b	101	62	0
Armidale	b	76	51	0
Bendem'r	b	84	59	0
Gunned'h	.	..	..	..
Cootamb'le	b	93	57	0
Tamworth	b	97	53	0
Coonab'rn	b	89	52	0
P.Macqrie	b	78	63	0
Murr'umbi	b	82	55	0
Cassilis..	b	89	51	0
Mus'br'ok	b	84	58	0
Dubbo...	b	81	69	0
Mudgee .	b	95	66	0·11
Maitland.	b	82	63	0
Hill End.	b	77	52	0
Newcastle	b	88	61	0
Orange..	b	79	55	0·07
Bathurst.	b	84	54	0·14
Cootab'n	.	..	..	..
Mt Vict'ria	b	74	54	0
Forbes. .	b	102	65	0
		E.		
Picton	b	85	57	0·01
Wentw'th	b	90	55	0
Young...	b	88	64	0
Wollgo'ng	b	82	60	0
Moss Vale	b	93	54	0
Euston...	b	98	57	0
Goulburn	b	85	51	0·05
Wagga...	b	94	67	0·07
Cape Geo.	f	78	62	0
Queanb'n	b	83	57	0·10
Deniliq'in	b	100	57	0
Moruya..	b	79	64	0·05
Kiandra..	b	69	46	0
Albury..	b	96	59	0
Bodalla.	b	89	54	0
Cooma...	c	67	49	0·29
Eden....	c	76	63	0·16
Gabo Is'd	g	77	64	0·02

WEATHER MAP.

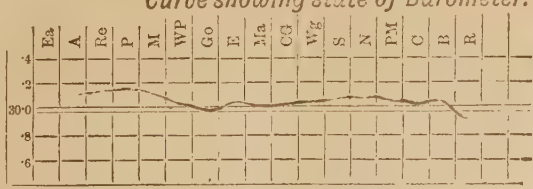
COMPILED from TELEGRAMS for 9 A.M., MARCH 4 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 4 . 6·738
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

WIND SCALE.
Mils
13-Light brze
23-Mod. „
34-Fresh „
Strong gale
Whole „

WEATHER.
b-Blue sky.
c-Scattered clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Bar'ter has risen about ·10 on S. E. coast. For not's to 3p.m see und.r shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 5.

Western Australia: Eucla, N N.E. 34, fine, 91° barometer 29·88. South Australia: Light easterly winds and fine weather, barometer about 30·10, and steady, 0·33; rain at Port Darwin; Alice Springs, strong easterly winds, no rain. Victoria reports cloudy weather, but no rain; on coast the sea is smooth, and the barometers steady, the wind being light and variable. New South Wales: Fine clear weather prevails over whole of colony, calm inland, smoth sea, steady barometers, and light N.E. wind on coast. (For rainfall, &c., see weather map.) Queensland: Brisbane, gloomy and sultry, strong S.W. wind and rising barometers, rain 0·240; Rockhampton cloudy, wind S.S.E., rain ·490. 3 p.m Observations.—Victoria: Barometers steady; Portland, E.S.E. 23, fine, smooth sea, temperature 66°; Cape Otway, S.E., very fine, smooth sea, temperature 0°; Wilson's Promontory, W. 13, cloudy, temperature 64°; New South Wales: Wentworth, S.W., fine, temperature 79°; Forbes, calm, like storm, temperature 102°; Sydney, N.E., 20, thunderstorm, sea smooth, temperature 74°; Port Macquarie, N.E., 30, fine, sea smooth, temperature 77°; Deniliquin, S.W., fine, temperature 77°; Goulburn, calm, cloudy, temperature 78°; Eden, E.S.E., 14, cloudy, sea smooth, temperature 71°; Cape George, N.E., like change, sea smooth, temperature 73°; Newcastle, N.E., 30, fine, sea smooth; Clarence River, S.E., fine, sea smooth, temperature 0°. State of Rivers.—Murrumbidge: At Wagga, 1 foot above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 5 feet 5 inches above summer level; at Pooncarie, 8 feet above summer level; at Menindie, 11 feet 6 inches above summer level; at Wilcannia, 10 feet 2 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 5 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 5 . 6·738
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	m'x	m'n	R'in
Casino..	b	86 58	0·03
Tenterfild	b	78 51	0
Moree....	b	98 71	0
Grafton..	b	88 62	0
Inverell..	b	83 60	0
Bourke ..	b	101 66	0
Narrabri	b	106 68	0
Armidale	b	73 51	0
Bendem'r	b	85 55	0
Gunned'h	b	98 57	0
Goonamble	b	94 71	0
Tamworth	b	99 55	0
Coonab rn	c	91 58	0
P. Macqrie	b	80 62	0
Durr'undi	b	84 62	0
Cassilis..	b	89 64	0
Dubbo...	b	90 61	0
Bridgee .	b	90 69	0
Maitland.	b	100 66	0
Hill End.	b	84 66	0
Newcastle	b	77 55	0·01
Orange..	b	89 60	0
Bathurst.	b	83 58	0·06
Condob'ln	b	83 60	0
Mt Vict'ria	b	88 70	0
Forbes. .	b	75 57	0
		108 69	0
Pictor	b	81 62	0
Wentw'th	b	89 58	0
Young...	b	84 63	0
Wollgo'ng	b	82 60	0
Moss Vale	b	79 60	0·06
Euston...	b	91 58	0
Goulburn	b	86 54	0·08
Wagga...	b	94 64	0
Cape Geo.	b	81 63	0·17
Queanb'n	b	91 59	0·04
Deniliq in	b	87 53	0
Moruya..	b	80 61	0·20
Candra..	c	68 36	0
Albury .	m	95 50	0
Bodalla..	g	84 55	1·17
Cooma...	b	66 50	0·11
Eden....	b	73 63	0·01
Gabo Is.'d	b	72 63	0

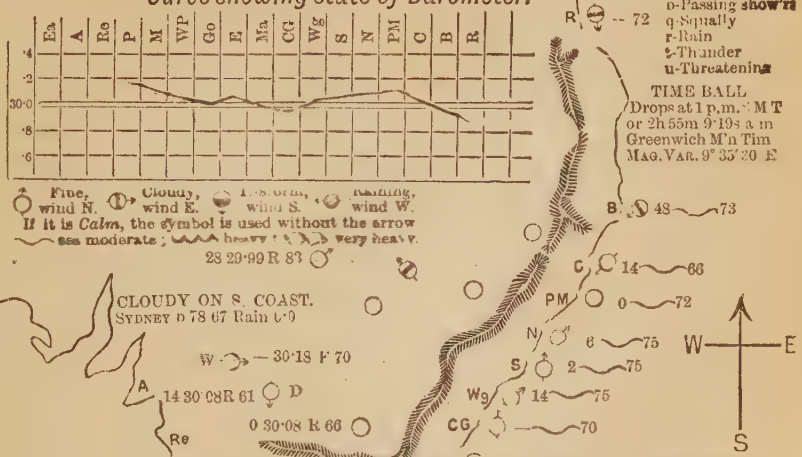
Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy.

WIND SCALE.
1-Light brze
2-Mod. „
3-Fresh „
4-Strg gale
5-Whole „

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m.
Greenwich M'n Tim
MAG. VAR. 9° 35′·20 E



Barometers steady.
For notes to 3p.m see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 7.

Western Australia: Perth, fine, wind S., 23, barometer 30·16, temperature 81°, sea smooth; Albany, fine, wind W.N.W., 8, barometer 30·13, temperature 67, sea smooth. South Australia reports cloudy weather as prevalent, but no rain is falling, nor has any been recorded; on south coast the sea is smooth, wind light from N., and barometers falling. Victoria: Cloudy and misty weather round coast, with smooth sea, falling barometers, and light northerly winds. New South Wales: Fine and clear, smooth sea, light variable northerly winds and steady barometers on east coast; light rains yesterday inland (see map). Queensland: Brisbane, fine light easterly wind and rising barometer; Rockhampton, 29·97, S.E., fine, temperature 74°; Cooktown, 29·84, S.E., 13, cloudy, temperature 83°, rain 0·72 inches. 3 p.m. Observations.—Victoria: Barometers falling slowly; Melbourne, N.N.E., 18, cloudy, temperature 93°; Cape Otway, E., 13, cloudy, smooth sea, temperature 75°; Wilson's Promontory, N.E., 18, foggy, sea smooth, upper clouds from W., temperature 72°. New South Wales: Wentworth, N., fine, temperature 97°; Albury, N., 10, cloudy, temperature 92°; Forbes, calm, fine, temperature 96°; Port Macquarie, N.E., 20, fine, sea smooth; Deniliquin, N.W., 14, fine, temperature 86°; Goulburn, calm, fine, temperature 81°; Eden, N.E., 20, fine, little east sea, temperature 76°; Cape George, N.E., 40, fine, sea smooth, temperature 72°; Newcastle, N.E., fine, sea smooth; Clarence River, E., 14, fine, sea smooth, temperature 81° State of Rivers.—Murrumbidgee: At Wagga, 1 foot above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot above summer level; at Euston, 1 foot above summer level. Darling: At Wentworth, 5 feet 9 inches above summer level; at Pooncarie, 7 feet 11 inches above summer level; at Menindie, 11 feet 8 inches above summer level; at Wilcannia, 10 feet 2 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 7 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 7 . 6·828
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	Mn	R'in
Casino..	b	88	57	0
Tenterfild	b	79	50	0
Morgee....	b	97	71	0
Grafton..	b	91	64	0
Inverell..	b	82	60	0·10
Bourke ..	b	105	68	0
Narrabri	b	107	65	0
Armidale	b	73	66	0
Bendem'r	b	86	54	0
Gunned'h	b	95	56	0
Coonam'le	b	97	60	0
Tamworth	b	97	55	0
Coonab rn	g	90	54	0
P.Macqrie	b	79	63	0
Murr'undi	b	71	56	0·27
Cassilis..	g	82	62	0
Mus'br'ok	b	88	62	0
Dubbo...	b	89	64	0
Mudgee .	b	97	60	0
Maitland.	f	86	63	0
Hill End.	b	77	52	0·37
Newcastle	b	88	65	0
Orange..	b	79	58	0
Bathurst.	b	85	53	0·50
Cootob'ln	b	92	70	0
Mt Vict'ria	b	71	51	0·25
Forbes. .	b	103	66	0
23 64		E		
Pictou	g	81	69	0·51
Carcoar..	b	88	63	0·56
Wentw'th	b	93	59	0
Young...	b	89	56	0
Wollgo'ng	b	82	61	0
Hay....	b	86	37	0
Moss Vale	b	75	60	0
Euston...	b	96	50	0
Goulburn	b	84	57	0
Wagga...	b	88	54	0
Cape Geo.	b	75	63	0
Queanb'n	b	91	58	0
Deniliq'in	b	67	48	0
Moruya..	b	75	61	0
Kiandra..	b	68	48	0
Albury..	m	91	50	0
Bodalla..	b	85	59	0·05
Cooma...	b	66	51	0
Eden	b	76	65	0·17
Gabo	m	80	65	0

As

8 29·98 F 87 *Curve showing state of Barometer.*

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

·4 ·2 30·0 ·8 ·6

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

14 29·95 F 87

CLOUDY ON S. COAST.
SYDNEY c 77 67 Rain 0·090

28 30·05 F 73

3 86 A 14 29·98 F 71 D

23 64

0 30·03 F 67

18 74 Re

18 81 M

34 75 P

CO

13 77

WP 18 66

Go 28 70

E 14 74

Ma 14 38

CG 14 71

Wg 14 73

S 0 71

N 3 75

PM 0 71

C 14 76

B 15 76

R

W E S

WEATHER.
Blue sky.
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing shower
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
13-Lt brze
23-Mod. "
34-Fresh "
6-Strg gale
5-Whole "

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′·30 E

Barometers steady .
For not s to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 8.

South Australia: Reports cloudy weather on coast, sea rather rough, barometers rising, wind fresh from south, no rain. Victoria: Cloudy, raining and squally round coast, with fresh W. and N.W. winds, steady barometers, and moderately rough sea; rain at Melbourne, 0·010; Portland, 0·190; and Wilson's, 0·150. New South Wales: Fine inland, threatening stormy weather on coast and mountain range; thunderstorms at 9 a.m. at Sydney, West Maitland, Mount Victoria, and Picton; barometers on coast moderately low and falling, sea smooth, wind fresh from N., fine N. of Newcastle. (For rainfall see weather map.) Heavy storm at 1.15 p.m., with very unsteady barometers, strong S. squall, and very heavy downfall of hail, some weighing nearly an ounce. Queensland: Fine clear weather, light, S.W. wind, smooth sea. 3 p.m. Observations.—Victoria: Barometer steady; Melbourne, W.S.W., 28, squally, threatening, temperature 59·; Cape Otway, S.W., 40, squally, with rain, temperature 53·; Portland, S.W., 56, squalls with hail, smooth sea, temperature 62·; Wilson's Promontory, W., 34, cloudy, fine, moderate sea, temperature 62·. New South Wales: Wentworth, S.W., fine, temperature 72·; Forbes, calm, fine, temperature 89·; Sydney, E.N.E., 30, stormy, smooth sea, temperature 73·; Port Macquarie, N.E., 42, thunderstorm, moderate sea, temperature 78·; Deniliquin, S.W., 14, fine, temperature 78·; Goulburn, N.E., like storm, temperature 75·; Eden, S.W., 20, showery, little easterly sea, temperature 65·; Cape George, N., 42, dull, moderate, temperature 73·; Newcastle, N.E., fine, smooth sea; Clarence River, E.N.E., 42, fine, smooth sea, temperature 72· It will be seen that a strong gale of wind from S.W. to W.S.W. was at 3 p.m. blowing in Victoria, and at Wentworth and Deniliquin, and the meeting of this cold wind and the strong N.E. wind has given rise to the thunderstorms which have been passing all day. At 1 p.m. very large hailstones fell, one of these from one point to the opposite one measured 2½ inches across, and weighed three-quarters of an ounce. At 3.30 p.m. another storm passed, and during this one 1·053 rain fell, making the rainfall from 7 a.m. to-day 1·372. State of Rivers.—Murrumbidgee: At Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot above summer level; at Euston, 1 foot above summer level. Darling: At Wentworth, 5 feet 4 inches above summer level; at Pooncarie, 8 feet above summer level; at Menindie, 11 feet 8 inches above summer level; at Wilcannia, 10 feet 2 inches above summer level.

WEATHER MAP.

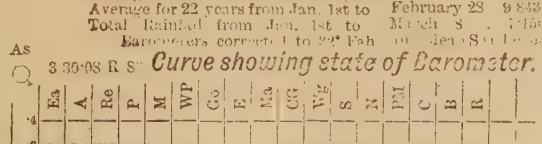
COMPILED from TELEGRAMS for 9 A.M., MARCH 8 1881, with NOTES to 3 P.M.

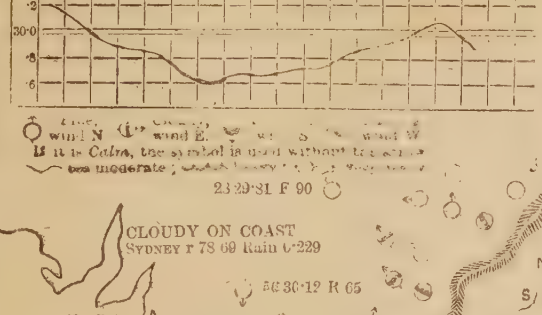
Sydney Observatory.

Lat. 33° 51′ 41″ S ; *Long.* 10h. 4 m 56·8s E

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 8 ... 7·156.
Barometers corrected to 32° Fah. ... Sea Level.

Stations	Wt	WX	Sm	Rain
Tasmania	b	90 57		0
Hunter Hill	b	79 51		0
Tenterfield	b	97 71		0
Grafton	b	94 63		0
Newcastle	b	83 58		0
Bourke	b	104 67		0
Carrabri	b	108 63		0
Armidale	b	79 55		0
Scudem'r	b	88 51		0
Tunnel'h	b	96 51		0
Moonamle		...		0
Wamworth	b	100 53		0
Coonab'ni	b	93 56		0
Macqrie	b	81 66		0
Warr'undi	b	81 69		0
Cassilis	g	83 59		0
Dis'br'ok	b	96 61		0
Dubbo	b	89 65		0
Wilcce	g	96 67		0
Maitland	t	87 68	0·30	
Hill End	c	86 65		0
Newcastle	c	84 66	0·12	
Bathurst	c	82 62	0·02	
Goulb'rn	b	86 58		0
Port Vict'ria	t	72 62	0·28	
Forbes	g	98 62		0
Sydney		8 70		
Port Pictor	t	83 60		0
Barcoar	c	89 68	0·11	
Deniliquin	b	107 60		0
Young	g	89 69	0·03	
Wollgo'ng	c	82 69		0
Hay	b	98 51		0
Moss Vale	b	77 62	0·02	
Euston	c	107 5[illegible]		0
Goulburn	b	90 64		0
Wagga	g	93 67		0
Cape Geo.	c	74 69		0
Queanb'n	c	91 83	0·17	
Deniliquin	b	91 62		0
Corowa	g	... 65		0
Wandra		...		
Albury	c	90 63	0·04	
Bodalla	g	89 59	0·01	
Cooma	g	65 50		0





WEATHER.
a-Blue sky.
c-Scatter'd clouds
d Drizzling rain
f-Fog
g-Cloomy, dull
h-Hail
l-Lightning
m-Frost
o-Overcast
p-Passing show'rs
q-Steady rain
r-Rain
t-Thunder
u-Threat'ning

TIME BALL
Drops at 1 p.m. M.T.
or 2h 55m 0·19s a.m.
Greenwich M'n Tim
MAG. VAR. 9° 35′ 0″ E.

Barter has fallen about ·30 on S.E. coast. For not's to 3p.m see und r shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 9.

South Australia reports cloudy weather, fresh southerly winds, rising barometers, and moderate sea on coast; no rain. Victoria: Squally weather from S.W. and S., with rain extending all round from Wilson's to Portland, sea rough, barometers rising; rain, Melbourne 0·870, Cape Otway 0·270, Portland 0·070, Wilson's Promontory 0·410; wind on coast blowing about 40 miles an hour S. and S.W. New South Wales: Fine at majority of stations; cloudy S.W. at Wagga, Queanbeyan, Kiandra, and Albury; clear weather on coast, sea smooth, wind fresh from S.W., barometers falling; turned cloudy at Sydney about noon, gradually getting darker during p.m. (For rain see weather map.) Queensland: Fine, light N.E. wind and moderate sea. 3 p.m. Observations.—Victoria: Melbourne, S.W. 28, gloomy, temperature 58°; Portland, S. 28, dull, slight sea, temperature 61°; Cape Otway, S.S.W. 34, gloomy, rather rough, temperature 58°; Wilson's Promontory, S.W. 28, gloomy, rather rough sea, temperature 60°; New South Wales: Wentworth, S., fine, temperature 77°; Albury, calm, raining, temperature 64°; Forbes, calm, dull, temperature 79°; Moruya, S.E. 14, cloudy, smooth sea, temperature 55°; Sydney, S.W. 30, gloomy, smooth sea, temperature 66°; Port Macquarie, S.S.E. 28, fine, smooth sea, temperature 52°; Deniliquin, S., cloudy, temperature 70°; Goulburn, W.N.W., raining, temperature 63°; Eden, S.W. 14, cloudy, light sea, temperature 62°; Clarence River, N. 14, fine, smooth sea, temperature 84°. State of Rivers.—Murray: At Albury, 1 foot above summer level. Darling: At Wentworth, 5 feet 2 inches above summer level; Pooncarie, 8 feet 2 inches above summer level; Menindie, 11 feet 8 inches above summer level; Wilcannia, 10 feet 1 inch above summer level.

WEATHER MAP.

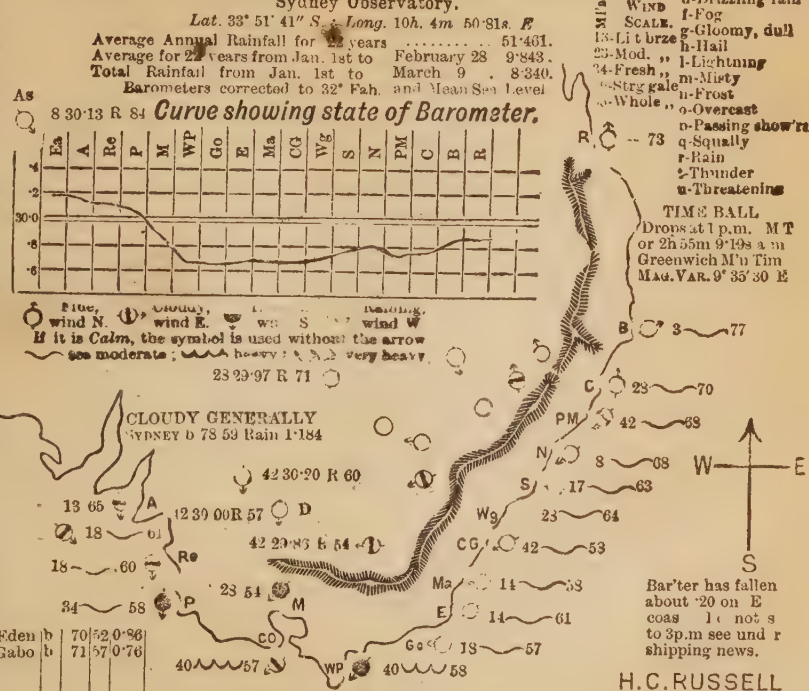
COMPILED from TELEGRAMS for 9 A.M., MARCH 9 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 9 . 8·340.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'X	Mn	R'in
Casino..	b	90	65	0
Centerfild	g	85	54	0
Moree....	b	94	65	0
Grafton...	b	80	71	0·14
Inverell..	b	83	54	0·15
Bourke ..	o	103	67	0
Warrabri	b	97	61	0·29
Armidale	b	79	59	0·56
Glenden'r	b	87	57	0·34
Gunned'h	b	96	56	0·09
Goonam'le	.	.	.	.
Tamworth	b	96	56	0·22
Coonab rn	.	.	.	.
Macqrie	g	87	64	0·12
Murr'undi	b	83	61	0·08
Cassilis.	.	.	.	.
Mus'br'ok	b	93	57	0·07
Dubbo...	b	87	63	0
Wellington	b	98	55	0·04
Maitland.	b	85	64	0·05
Hill End.	b	80	41	0
Newcastle	b	84	64	1·32
Orange..	b	78	47	0
Bathurst.	b	82	43	0·32
Condob'lin	b	65	57	0
Vict'ria	o	71	42	0·51
Grafton.	b	99	57	0
8 69		E.		
Picton	b	77	48	0·12
Marcoar.	b	77	49	0·26
Bentw'th	b	75	54	0
Wyung...	b	80	52	0
Gollgo'ng	b	79	54	0·35
Bay....	b	76	57	0
Moss Vale	b	72	67	0·10
Braiston...	b	79	47	0
Moulburn	o	80	44	0
Wagga...	g	80	51	0
Cape Geo.	b	74	50	0·96
Canb'n	c	80	46	0·03
Wiliq'in	b	80	43	0
Yaruya..	b	80	57	0
Alexandra..	o	41	22	0·38
Albury .	g	89	50	0
Walla.	b	87	42	0
Albona...	b	56	40	0
Eden	b	70	52	0·86
Gabo	b	71	57	0·76



Bar'ter has fallen about ·20 on E coas 1 not s to 3p.m see und r shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 10.

h Australia: Cloudy round coast, with light southerly steady barometers, and moderate sea, no rainfall, fine Victoria: Cloudy and raining, rough sea, fresh southerly and steady barometers; rain, Cape Otway, 0·090; Portland, Wilson's Promontory, 0·060. New South Wales: Fine and up north, cloudy at southern and south-western s, raining south at Moruya, Eden, and Gabo (for rainfall ather map); smooth sea, steady barometers, and light inds on coast. Queensland: Fine, light S.W. wind, rising ter, smooth sea. 3 p.m. Observations.—Victoria: Baro- rising slowly; Melbourne, S.S.W., 18, fine, temperature ortland, S.S.E., 40, cloudy, sea smooth, temperature 64·; Otway, S., 18, cloudy, moderate sea, temperature 59·; 's Promontory, W.S.W., 34, misty, rather rough sea, tem- e 55·. New South Wales: Wentworth, S., fine, tem- e 76·; Deniliquin, W., fine, temperature 70·; Albury, W., temperature 69·; Goulburn, W., dull, temperature 65·; calm, fine, temperature 82·; Eden, S.W., 42, cloudy, light, ature 68·; Moruya, S.W., 28, fine, moderate sea, tempera- ·; Cape George, S.W., cloudy, smooth sea, temperature ydney, calm, cloudy, smooth sea, temperature 68·; New- S.W., fine, smooth sea; Port Macquarie, E., 14, mooth sea, temperature 70·; Clarence River, S.E., e, smooth sea, temperature 77·. Barometers are slowly, and wind is going to east again. f Rivers: Murrumbidgee, at Wagga, summer level; y, summer level; at Balranald, summer level. , at Albury, 1 foot above summer level; at , 1 foot above summer level. Darling, at Went- 5 feet above summer level; at Pooncarie, 8 feet 2 inches ummer level; at Menindie, 11 feet 7 inches above summer t Wilcannia, 10 feet 1 inch above summer level.

WEATHER MAP.

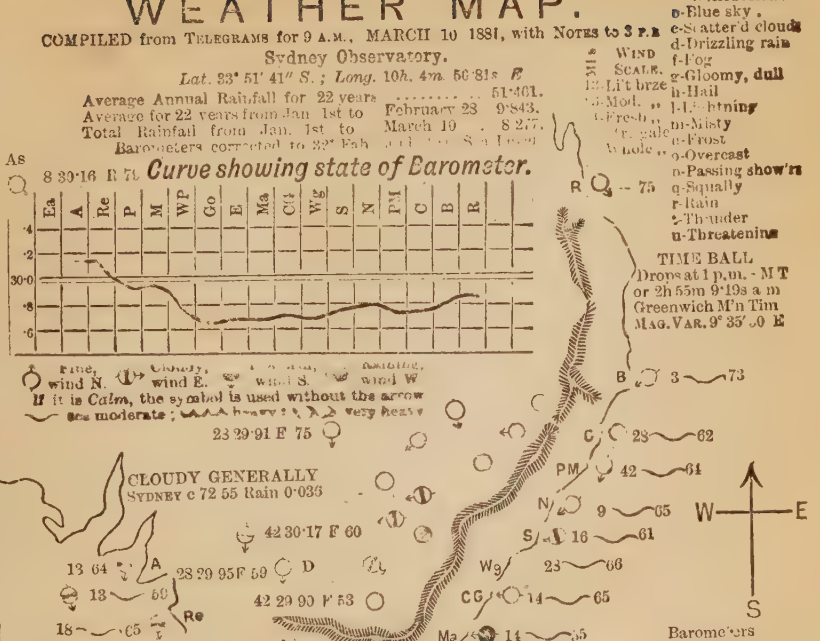
COMPILED from TELEGRAMS for 9 A.M., MARCH 10 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 56·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 10 . 8·277.
Barometers corrected to 32° Fah. and Sea Level.

Stations	W't	M'n	T'm	R'in
Casino..	b	92 48		0
Tenterfild	b	76 39		0
Moree....	b	84 66		0
Grafton..	b	95 55		0
Inverell..	b	81 44		0
Bourke ..	b	83 62		0
Narrabri	b	86 48		0
Armidale	b	62 54		0
Bendem'r	b	70 41		0
Gunned'h	.	..	..	..
Coonam'le	b	77 54		0
Tamworth	b	89 41		0
Coonab'n	b	72 46		0
P.Macqrie	b	74 55		0
Murr'undi	b	72 54		0
Cassilis..	b	71 46		0
Mus'br'ok	b	80 57		0
Dubbo...	b	74 58		0
Mudgee..	g	78 58		0
Maitland.	b	76 56		0·04
Hill End.	g	73 48		0
Newcastle	b	84 51		0·02
Orange..	g	62 47		0
Bathurst.	g	62 45		0·03
Cootab'n	b	65 57		0
Mt Vict'ria	c	56 40		0 01
Forbes. .	b	81 52		0
Picton	c	69 47		0
C'reoar.	g	65 57		0·12
Wentw'th	g	72 47		0
Young...	c	65 54		0·12
Wollongong	b	80 53		0
Hay....	b	72 59		0
Moss Vale	c	59 44		0·05
Euston..	c	72 49		0
Goulburn	b	55 43		0·20
Wa[illegible]	b	65 48		0
Cap[illegible]	b	66 51		0
Queb'n	g	61 48		0·22
Deniliquin	b	73 48		0
Morwa..	r	74 46		0 84
Kiandra..	f	42 25		0·24
Albury .	f	60 46		0 38
Bodalla.	g	76 42		1·17
Cooma...	g	54 39		0·87
Eden	r	69	55	1·01
Gabo	p	67	55	0·63



H.C.RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MARCH 11.

Western Australia: Perth, fine, light, S.S.E. wind, and smooth sea, barometer 30·18, temperature 96°. South Australia: Cloudy on S. coast, with fresh S. winds, rising barometers, and smooth sea, fine inland, no rain. Victoria: Cloudy and very threatening all round coast, wind strong from S., barometers rising, sea heavy, rain; Melbourne, 0·110 (still showery); Portland, 0·050. New South Wales: Fine inland and on coast N. of and at Newcastle, rough sea down S., barometers falling all along coast, with fresh S. wind, cloudy westward and S.W. as far as Mountains, no rain. Queensland: Brisbane, fine, light S. wind, rising barometer and smooth sea. 3 p.m. Observations.—Victoria: Barometers steady: Melbourne, S.W., 13, fine, temperature 61°; Portland, S.W., 28, cloudy, temperature 63°; Cape Otway, W., 18, showery, moderate sea, temperature 56°; Wilson's Promontory, S.W., 23, cloudy, rough sea, temperature 58°. New South Wales: Wentworth, S., fine, temperature 76°; Deniliquin, calm, fine, temperature 74°; Albury, S., cloudy, temperature 68°; Goulburn, W., fine, temperature 66°; Forbes, calm, fine, temperature 90°; Cape George, S.S.W., 28, cloudy, rising sea, temperature 63°; Sydney, S., 20, cloudy, smooth sea, temperature 65°; Newcastle, S.S.E., fine, moderate sea; Port Macquarie, S.S.E., 28, fine, smooth sea, temperature 73°; Clarence River, S.E., 14, fine, smooth sea, temperature 77°. State of Rivers: Murrumbidgee, at Hay, summer level; at Balranald, summer level. Murray, at Euston, summer level. Darling, at Wentworth, 4 feet 11 inches above summer level; at Pooncarie, 8 feet 2 inches above summer level; at Menindie, 11 feet 7 inches above summer level; at Wilcannia, 9 feet 6 inches above summer level.

WEATHER MAP.

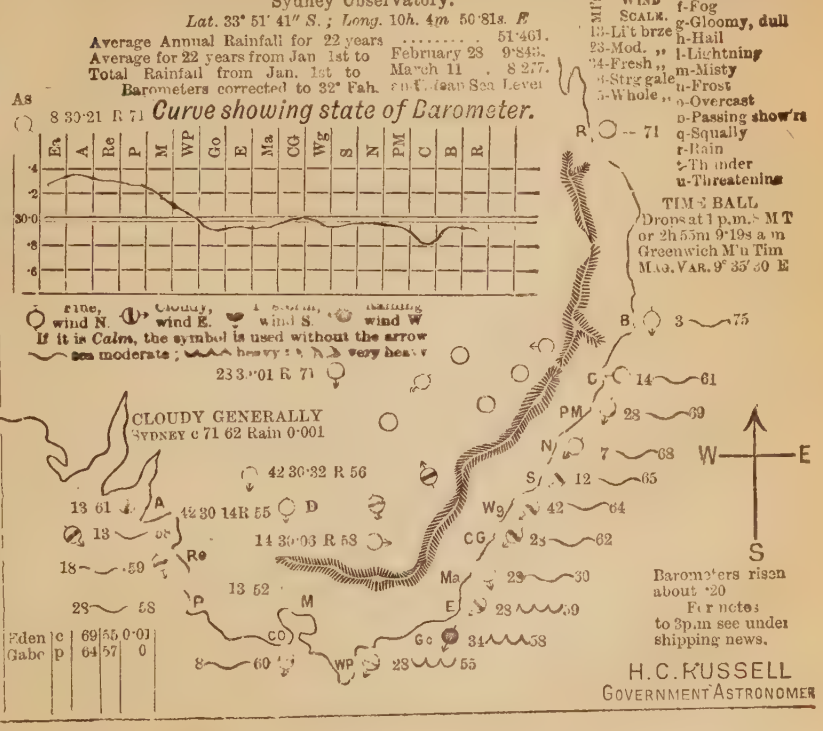
COMPILED from TELEGRAMS for 9 A.M., MARCH 11 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 11 . 8·277.
Barometers corrected to 32° Fah. and to Mean Sea Level

Stations	Wt	Mx	Mn	Rin
Casino.	b	89 50		0
Tenterfield	b	75 38		0
Moree....	b	86 59		0
Grafton..	b	91 55		0
Inverell..	b	72 49		0
Bourke ..	b	97 64		0
Narrabri	b	93 52		0
Armidale	b	68 42		0
Bendem'r	b	73 44		0
Gunned'h	b	89 43		0
Coonam'le	b	82 50		0
Tamworth	b	83 43		0
Coonab'n	b	79 44		0
P. Macquarie	b	72 57		0
Murr'undi	b	72 56		0
Cassilis..	b	75 49		0
Mus'br'ok	b	81 55		0
Dubbo...	b	75 59		0
Mudgee ..	b	82 44		0
Maitland.	c	73 62		0
Hill End.	b	68 41		0
Newcastle	b	84 52		0
Orange.	b	67 47		0
Bathurst.	b	68 44		0
Cootab'n	b	65 53		0
Mt Victoria	b	62 48		0
Forbes.	b	87 53		0
Victor	g	77 56		0
Carcoar.	b	67 45		0
Wentw'th	b	72 46		0
Young...	b	72 53		0
Wollongong	c	73 56		0
Hay....	b	76 46		0
Mons Vale	.	. . .		..
Euston...	b	91 46		0
Conburn	b	66 48		0
Wagga...	b	76 52		0
Cape Geo.	c	69 61		0
Queanb'n	c	68 52		0
Deniliq'in	b	76 45		0
Moruya..	b	71 53		0
Kiandra..	b	57 24		0
Albury .	b	73 42		0
Bodalla.	b	76 42		0
Cooma...	c	48 33		0
Eden	c	69	55	0·01
Gabo	p	64	57	0



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 12.

Western Australia: Perth, fine, light E. wind, and smooth sea; barometer 30·22, temperature 87°; Albany, fine, light S.E. wind, and smooth sea; barometer 30·30; temperature 72°. South Australia: Weather cloudy without rain, smooth sea, light variable winds and calms on coast, barometers high and rising. Victoria: Cloudy and threatening, light rain falling at Portland, moderate sea, with fresh S.W. winds on coast; rain, Melbourne 0·010, Cape Otway 0·090, and Portland 0·030. New South Wales: Fine inland and on coast S. of Newcastle, wind fresh from S. and S.W., barometers rising rapidly, rough sea at Port Macquarie, Cape St. George, and Gabo Island; raining at Clarence River Heads. Queensland: Brisbane, fine, light S.W. wind, smooth sea; Rockhampton, fine, light S.E. wind. 3 p.m. Observations. —Victoria: Barometers steady; Cape Otway, W., 18, cloudy, moderate sea, temperature 62°; Portland, W.S.W., 28, cloudy, smooth sea, temperature 65°; Wilson's Promontory, W., 23, cloudy, moderate sea, temperature 64°. New South Wales: Sydney, E., 20, fine, temperature 66°. State of Rivers: Murrumbidgee: At Wagga, 1 foot 9 inches above summer level; at Hay, summer level; at Balranald, 6 inches below summer level. Murray: At Albury, 10 inches above summer level; at Euston, summer level. Darling: At Wentworth, 4 feet 8 inches above summer level; at Pooncarie, 8 feet 1 inch above summer level; Menindie, 11 feet 7 inches above summer level; Wilcannia, 9 feet 3 inches above summer level.

REPORT

ns.	W'b	M'x	Mn	R'in
..	c	89 62		0
fild	g	82 51		0
...	b	92 59		0
n..	g	81 53		0
l..	b	76 48		0
...	b	83 62		0
ori	b	96 59		0
ale	b	72 55		0
m'r	b	80 55		0
d'h	.	..	..	..
n'le	b	82 52		0
orth	b	91 53		0
rn	b	84 46		0
riel	g	76 61		0·21
nia	b	74 67		0
indi	c	77 60		0
s..	g	80 56		0
'ok	g	85 54		0
...	b	77 58		0
e .	b	88 52		0
nd.	c	77 65		0
nd.	b	68 44		0
stle	g	84 52		0
e..	b	68 46		0
rst.	b	73 44		0
b'lu	b	65 56		0
t'ria	f	64 47		0·01
68		E		
rb's	b	82 51		0
...	c	70 54		0
ar..	b	71 49		0
r'th	b	74 47		0
...	b	74 52		0
o'ng	b	73 56		0
..	.	..	..	..
Vale	.	..	..	..
n...	b	76 43		0
urn	n	69 49		0
...	b	74 46		0
Geo.	b	66 55		0
b'n	b	70 47		0
q'in	b	71 41		0
ra..	b	70 48		0
ra..	b	59 25		0
y...	b	78 40		0
la.	b	71 38		0

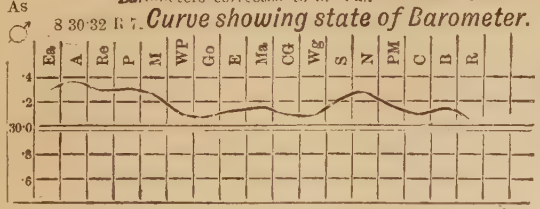
WEATHER MAP.

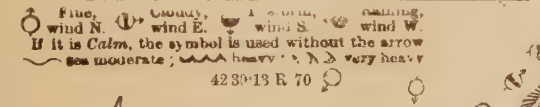
COMPILED from TELEGRAMS for 9 A.M., MARCH 12 1881, with NOTES to 3 P.M.

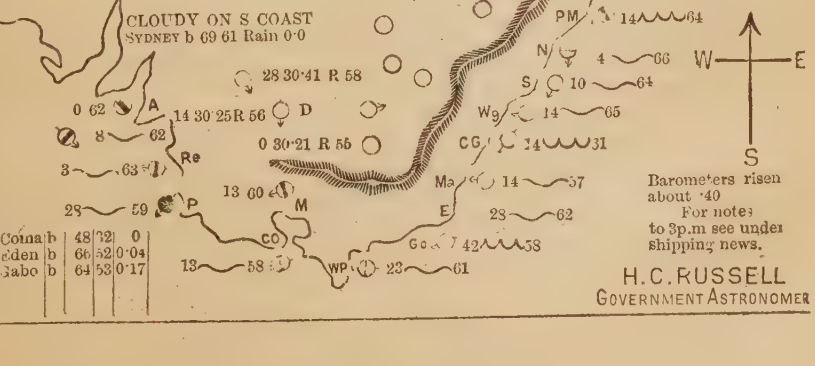
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 12 . 8·277.
Barometers corrected to 32° Fah and Mean Sea Level







Coma	b	48	32	0
Eden	b	66	52	0·04
Gabo	b	64	53	0·17

WIND SCALE.
12-Lt brze
23-Mod. „
34-Fresh „
45-Strg gale
56-Whole „

WEATHER.
a-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Barometers risen about ·40
For notes to 3p.m see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 14.

Victoria: Cloudy, wind fresh from west, barometers falling; ugh sea at Cape Otway, raining at Portland; rainfall, Otway, 20; Portland, 0·050. New South Wales: Fine clear weathe. orted from nearly every station; gloomy at Eden, Armidal afton, and Casino, smooth sea, falling barometers, and lig therly winds and calms on coast. Queensland: Brisbane, fre sh S.E. wind, rising barometers, and moderate sea; Ro mption, fine, wind inclining to S.E.; rain, 0·010; Cooktow e, wind S.E., 28 miles, no rain, barometers 29·93, temperatu . 3 p.m. Observations.—Victoria: Melbourne, W.N.W., 1 omy, temperature 70°; Portland, W., 40, squally, smooth sea. nperature 68°; Cape Otway, N.W., 48, squally, showery, lo . temperature 61°; Wilson's Promontory, W., 34, squa her rough sea, temperature 61°. New South Wales: Dor n, SW., 14, fine, temperature 72°; Albury, calm, fine, temp e 71°; Goulburn, W, fine, temperature 71°; Forbes, calm, fine, perature 81°; Eden, E., 14, fine, temperature 67°; Moruy ., 20, fine sea smooth, temperature 70°; Cape George, N.N.E. fine, sea smooth, temperature 73°; Sydney, E., 8, fine, smooth temperature 73°; Newcastle, N.W., fine, smooth sea; Port quarie, N.E., 42, fine, moderate sea, temperature 75°; Clarence er, E.N.E., 28, fine, moderate sea, temperature 77°. State of ers.—Murrumbidgee: At Hay, summer level; at Balranald, nches above summer level. Murray: At Albury, 1 foot 7 es above summer level; Euston, summer level. Darling: At tworth, 4 feet 5 inches above summer level; Pooncarie, 8 feet e summer level; Menindie, 11 feet 7 inches above summer ; Wilcannia, 8 feet 6 inches above summer level.

WEATHER MAP.

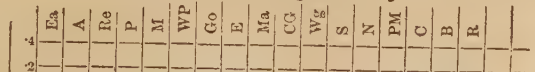
COMPILED from TELEGRAMS for 9 A.M., MARCH 14 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 14 . 8·278.
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

Stations.	W't	M'x	Mn	R'in
Casino..	c	83 54		0
Tenterfild	h	78 54		0
Moree....	b	91 67		0
Grafton..	g	82 62		0·15
Inverell..	b	78 56		0
Bourke ..	b	89 66		0
Narrabri	b	99 54		0
Armidale	g	74 52		0
Bendem'r	g	83 49		0
Runned'h	b	95 ..		0
Boonam'le	.	..		..
Tamworth	b	95 50		0
Boonab rn	b	86 41		0
W. Macqrie	b	75 69		0
Wilcannia	b	76 69		0
Murr'undi	b	76 55		0
Bassilis..	b	83 42		0
Bus'br'ok	b	84 55		0
Dubbo...	b	79 55		0
Cudgee .	b	91 56		0
Maitland.	b	79 57		0
Hill End.	b	72 59		0
Newcastle	b	79 69		0
Range..	b	69 45		0
Bathurst.	b	77 42		0
Goulb'rn	b	87 56		0
Vict'ria	b	70 49		0
		E		
Forb's	b	79 50		0
Acton...	b	79 53		0
Barcoar..	b	76 45		0
Wentw'th	b	79 50		0
Young...	b	76 47		0
Collgo'ng	b	78 58		0
Bay....	b	75 35		0
Moss Vale	.	..		..
Kiston...	b	82 45		0
Albulburn	b	78 47		0
Wagga...	b	75 46		0
Cape Geo.	b	75 59		0
Queanb'n	b	85 50		0
Deniliq'in	b	75 45		0
Boruya..	b	74 58		0
Cassandra..	b	44 21		0
Albury..	b	80 41		0
Bodalla.	b	76 50		0
Coma	b	55 35		0
Cooden	g	70 68		0
Gabo	b	67 53		0

As

CLOUDY ON S COAST
SYDNEY b 72 61 Rain 0·0

14 30·14 F 73

14 30·31 R 61

14 30 19 F 54

0 30·16 F 60

13 63

34 — 62

34 — 61

18 — 62

0 — 64

14 — 34

14 — 69

14 — 71

0 — 67

5 — 71

23 — 72

34 — 75

75

71

Barometers fallen about ·10 on coast
For notes to 3p.m see under shipping news.

M'n WIND SCALE.
13-Lt brze
23-Mod. ,,
34-Fresh ,,
43-Strg gale
55-Whole ,,

WEATHER.
b-Blue sky .
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·198 s m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W — E
S

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MARCH 15.

South Australia reports cloudy weather; raining at Robe; fresh southerly winds; rising barometers and smooth sea reported from coast. Stations—Rain: Adelaide, 0·040; Cape Borda, 0·010; Robe, 0·070. Victoria, cloudy and squally, fresh westerly winds and steady barometers; rough sea at Cape Otway; strong W. wind at Wilson's Promontory; raining at Portland. Rainfall: Cape Otway, 0·220; Portland, 0·080; and Wilson's Promontory, 0·190. New South Wales, fine and clear, light land breezes, smooth seas; falling barometers on coast; fine all inland and very clear; no rain. Queensland, fine, fresh S. wind, rising barometer, and smooth sea. 3 p.m. Observations.—Victoria: Melbourne, W.S.W., 18, cloudy, temperature 57°; Cape Otway, W., 28, cloudy, rough sea, temperature 58°; Wilson's Promontory, W., 48, squally, showery, high sea, temperature 59°. New South Wales: Deniliquin, S.W., 28, fine, temperature 73°; Albury, W., fine, temperature 70°; Goulburn, W., fine, temperature 71°; Eden, S.E., fine, light sea, temperature 68°; Cape George, N.E., 11, fine, smooth sea, temperature 73°; Sydney, N., 8, fine, smooth sea, temperature 79°; Newcastle, N.W., fine, smooth sea; Port Macquarie, S.E., 14, fine, smooth sea, temperature 77°; Clarence River, N.E., 42, fine, smooth sea, temperature 78°. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 1 inch above summer level. Murray: At Albury, 1 foot 4 inches above summer level; Darling: At Wentworth, 4 feet 3 inches above summer level; at Pooncarie, 7 feet 10 above summer level; at Menindie, 11 feet 4 inches above summer level; at Wilcannia, 8 feet above summer level.

WEATHER MAP.

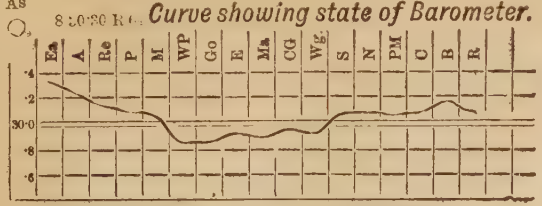
COMPILED from TELEGRAMS for 9 A.M., MARCH 15 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 15 . 8·285.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wt	Mx	Mn	R'in
Casino..	b	92	58	0
Tenterfild	b	82	46	0
Moree....	b	92	63	0
Grafton..	b	82	43	0
Inverell..	b	81	54	0
Bourke ..	b	90	64	0
Narrabri	b	98	49	0
Armidale	b	75	50	0
Bendem'r	b	82	40	0
Gunned'h	b	97	38	0
Coonam'le	b	87	49	0
Tamworth	b	92	33	0
Coonab rn	b	86	36	0
P.Macqrie	b	80	64	0
Wilcannia	.	..	..	..
Murr'undi	b	81	50	0
Cassilis..	b	84	45	0
Mus'br'ok	b	90	49	0
Dubbo...	b	74	59	0
Mudgee..	b	91	59	0
Maitland.	b	84	58	0
Hill End.	b	73	55	0
Newcastle	b	85	59	0
Orange..	b	70	43	0
Bathurst.	b	79	39	0
Condob'lin	b	68	60	0
Mt Vict'ria	b	71	49	0
Forb's	b	83	52	0
Picton...	b	78	42	0
Carcoar..	b	73	44	0
Wentw'th	b	80	53	0
Young...	.	..	..	.
Wollgo'ng	b	83	52	0
Hay....	b	79	43	0
Moss Vale	.	..	..	..
Euston...	b	84	49	0
Goulburn	b	78	42	0
Wagga...	b	76	49	0
Cape Geo.	b	77	55	0
Queanb'n	b	79	49	0
Deniliq'in	b	78	53	0
Moruya..	b	72	56	0
Kiandra..	c	45	23	0
Albury..	b	78	45	0
Bodalla.	b	78	50	0
Coma	b	63	42	0
Eden	b	71	55	0
Gabo	b	69	58	0

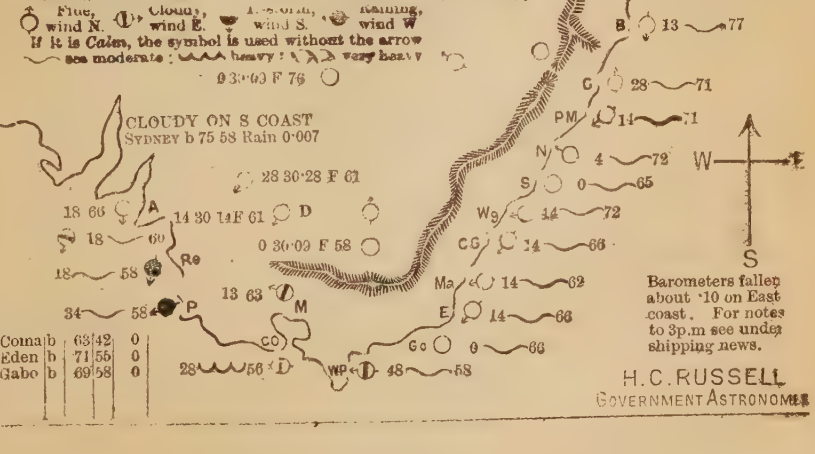


Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W
If it is *Calm*, the symbol is used without the arrow
sea moderate : heavy : very heavy

WEATHER.
o-Blue sky.
c-Scattered clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing shower
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
0-Light breeze
2-Mod. "
4-Fresh "
6-Strong gale
8-Whole "

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·193s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E



Barometers fallen about ·10 on East coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

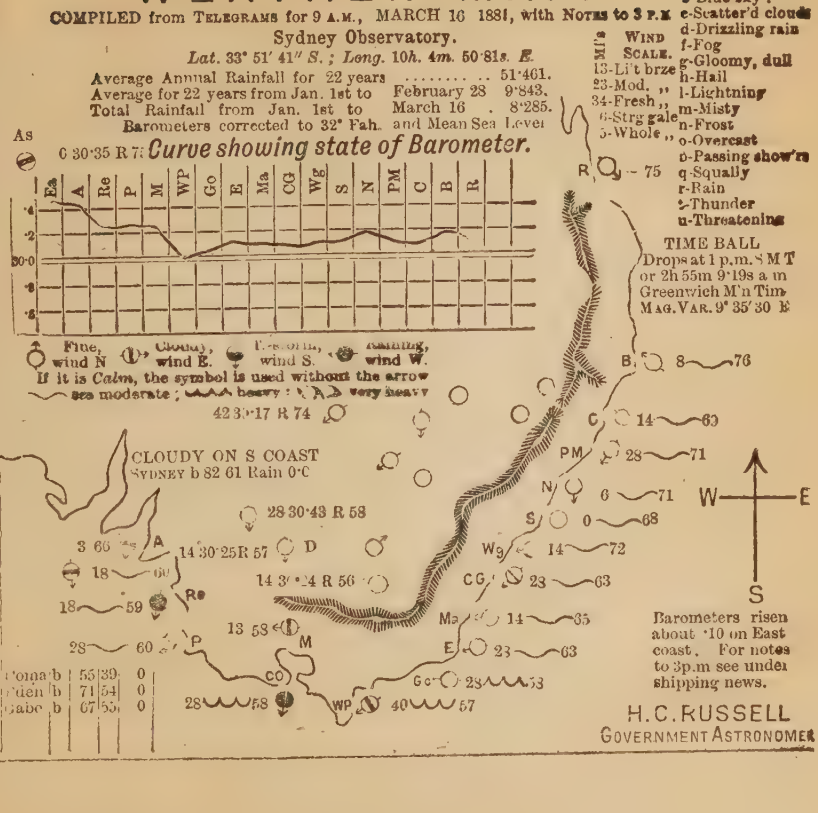
COMPILED from TELEGRAMS for 9 A.M., MARCH 16 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 16 . 8·285.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	Mn	R'in
Casino..	b	94	63	0·49
Tenterfield	b	82	47	0
Moree....	b	95	61	0
Grafton..	b	97	59	0
Inverell..	b	81	43	0
Bourke ..	b	93	66	0
Narrabri	b	100	53	0
Armidale	b	75	49	0
Bendem'r	b	82	40	0
Tumed'b	b	98	39	0
Goonam'le	b	87	56	0
Tamworth	b	91	39	0
Goonab'rn	b	86	42	0
C. Macqrie	b	79	59	0
Vilcannia	.	..	..	..
Murr'undi	b	81	53	0
Bassilis..	b	83	43	0
Mus'br'ok	b	83	49	0
Dubbo...	b	75	59	0
Cudgee .	b	88	52	0
Braidwd.	b	83	58	0
Hill End.	b	72	58	0
Newcastle	b	89	62	0
Orange.	b	70	47	0
Bathurst.	b	76	43	0
Condob'lin	b	67	57	0
Vict'ria	b	65	59	0
18 69				
Ford's	b	65	59	0
Picton...	b	80	48	0
Marcoar..	b	73	45	0
Penrw'th	b	78	49	0
Young...	b	76	48	0
Tollgo'ng	b	85	53	0
Bay....	b	78	47	0
Moss Vale	.	..	..	..
Gaston...	b	79	49	0
Goulburn	b	75	40	0
Braidwa...	b	78	51	0
Cape Geo.	c	83	59	0·08
Queanb'n	b	78	66	0
Jennip'n	b	79	44	0
Moruya..	b	76	59	0
Sandra...	b	61	50	0
Albury ..	b	78	46	0
Bodalla.	c	86	52	0



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 17.

Western Australia: Perth, clear, but sultry, smooth sea, wind E.N.E., 23, barometer 30·18, temperature 99°; Albany, fine and calm, no sea, barometer 30·19, temperature 72°. South Australia: Cloudy, with fresh S.W. winds, smooth sea, and steady barometers—rain at Port Darwin, 0·700; no rain in south of colony. Victoria: Cloudy, and still very unsettled; light rain falling at Wilson's Promontory; rough sea at Cape Otway; barometers steady, wind fresh from W. and S.W.; Cape Otway, 0·010; Wilson's Promontory, 0·070. New South Wales: Fine clear weather all over colony, smooth sea, light W. and S.W. winds, and rising barometers on coast; no rain fallen, fine and calm inland. Queensland: Brisbane, fine, light S. wind, rising barometer, and smooth sea. 3 p.m. Observations.—Victoria: Melbourne, W.S.W., 13, cloudy, temperature 67°; Cape Otway, W.N.W., 28, cloudy, rough sea, temperature 61°; Wilson's Promontory, W., 34, cloudy, squally, rough sea, temperature 62°. New South Wales: Wentworth, S.W., fine, temperature 72°; Albury, calm, fine, temperature 70°; Forbes, calm, fine, temperature 82°; Sydney, E., 8, fine, smooth sea, temperature 75°; Port Macquarie, N.E., 28, fine, smooth sea, temperature 77°; Deniliquin, calm, fine, temperature 73°; Goulburn, W., fine, temperature 70°; Eden, E.N.E., 11, fine, smooth sea, temperature 67°; Cape George, N.W., 14, fine, smooth sea, temperature 70°; Newcastle, S.S.E., fine, smooth sea; Clarence River, S.E., 28, fine, smooth sea, temperature 79°. State of Rivers.—Murrumbidge: At Wagga, 1 foot above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 11 inches above summer level; at Euston, summer level. Darling: At Wentworth, 4 feet above summer level; at Pooncarie, 7 feet 6 inches above summer level; at Menindie, 11 feet 2 inches above summer level; at Wilcannia, 6 feet 6 inches above summer level—falling.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 17 1881, with NOTES to 3 P.M.

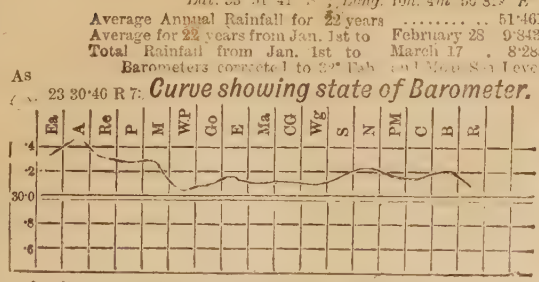
Sydney Observatory.

Lat. 33° 51′ 41″ S ; *Long.* 10h. 4m. 59·81s E

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 17 . 8·285.
Barometers corrected to 32° Fah. and Mean Sea Level.

Stations	W't	M'x	M'n	R'in
Casino..	b	92	62	0
Tenterfild	b	73	48	0
Moree....	b	97	59	0
Grafton..	b	86	62	0
Inverell..	b	81	41	0
Bourke ..	b	90	62	0
Narrabri	b	100	52	0
Armidale	b	77	44	0
Bendem'r	b	82	41	0
Gunned'h	b	97	38	0
Coonam'le	b	86	54	0
Tamworth	b	93	40	0
Coonab rn	b	84	38	0
P.Macqrie	b	79	61	0
Wilcannia	b	76	60	0
Murr'undi	b	80	52	0
Cassilis..	b	83	43	0
Mus'br'ok	b	88	51	0
Dubbo...	b	77	56	0
Menindie	b	76	54	0
Mudgee .	b	92	45	0
Maitland.	b	80	59	0
Hill End.	b	70	59	0
Newcastle	b	80	59	0
Orange..	b	68	42	0
Bathurst.	b	74	38	0
Condob'lin	.	..	..	..
Forb's	b	81	50	0
MtVict'ria	b	70	44	0
Picton...	b	79	47	0
Carcoar..	b	73	35	0
Wentw'th	b	75	49	0
Young...	b	73	48	0
Wollgo'ng	c	78	57	0
Hay.....	b	75	37	0
Moss Vale	.	..	..	..
Euston...	b	80	44	0
Goulburn	b	76	41	0
Wagga...	b	73	47	0
Cape Geo.	b	74	56	0
Queanb'n	b	78	44	0
Deniliq'in	b	76	52	0
Moruya..	b	73	56	0
Kiandra..	b	48	26	0
Albury..	b	75	40	0
Bod'lla	b	76	48	0
Cooma	b	56	38	0
Eden	b	73	54	0
Gabo	b	69	56	0

Curve showing state of Barometer.

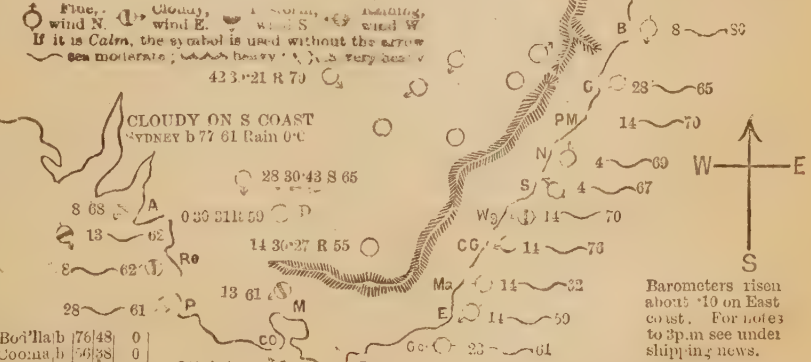


Fine, wind N. Cloudy, wind E. Rain, wind S. Hailing, wind W.
If it is *Calm*, the symbol is used without the arrow.
Sea moderate; heavy; very heavy.

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Snow
u-Threatening

WIND SCALE.
13-Lt brze
23-Mod. "
34-Fresh "
6-Strg gale
5-Whole "

TIME BALL
Drops at 1 p.m. M.T. or 2h 55m 9·195s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E



Barometers risen about ·10 on East coast. For notes to 3p.m see under shipping news.

H.C.RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

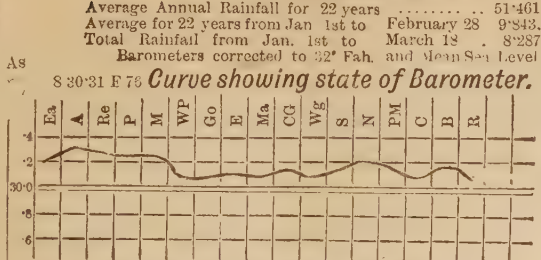
COMPILED from TELEGRAMS for 9 A.M., MARCH 18 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 18 . 8·287.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W't	M'x	M'n	R'in
Casino..	b	88 59		0
Tenterfild	b	83 51		0
Moree....	b	95 56		0
Grafton...	b	85 62		0
Inverell..	b	78 43		0
Bourke ..	b	88 61		0
Narrabri	b	102 52		0
Armidale	b	76 44		0
Bendem'r	b	83 41		0
Gunned'h	b	96 39		0
Goonam'le	b	86 55		0
Tamworth	b	95 41		0
Coonab'rn	b	84 39		0
P. Macqrie	b	79 62		0
Wilcannia	b	77 72		0
Burr'undi	b	79 51		0
Cassilis..	b	84 41		0
Lis'br'ok	b	86 50		0
Dubbo...	b	78 57		0
Glenindie	b	80 57		0
Gudgee..	b	93 48		0
Maitland.	c	81 63		0
Hill End.	b	72 56		0
Newcastle	b	81 60		0
Orange..	b	69 42		0
Bathurst.	b	77 43		0
Condob'lin		..	..	..
0 72		E		
Forb's	b	84 52		0
Mt Vict'ria	b	72 48		0
Picton...	g	68 55		0
Parcoar..	b	76 46		0
Penrith	b	78 53		0
Young...	b	77 52		0
Yollgo'ng	c	83 63		0
Hay....	b	79 40		0
Moss Vale	b	72 53		0
Muston...	.	..	..	..
Goulburn	b	78 48		0
Wagga...	b	73 52		0
Cape Geo.	b	75 62		0
Queanb'n	b	82 52		0
Deniliq'in	b	79 40		0
Moruya...	b	73 60		0
Candra..	b	62 35		0
Albury..	b	80 47		0
Bod'Tla	b	79 51		0
Cooma	b	58 42		0
Eden	b	71 55		0
Gabo	b	70 57		0



Fine, wind N. Cloudy, wind E. Rain, wind S. Rain, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

28 30·14 F 73

CLOUDY ON S COAST
SYDNEY b 81 63 Rain 0·02

28 30·33 F 62

3 67 A

0 30 23 F 67 D

0 30·23 F 62

8 62 Re

23 61 M

23 60 P

23 59 CO

28 57 WP

13 63 Gc

14 64 E

14 67 Ma

28 67 CG

14 74 Wg

0 69 S

3 74 N

14 72 PM

14 70 C

18 77 B

75 R

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
M's
1-Lt brze
2-Mod. "
3-Fresh "
4-Strg gale
5-Whole "

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W — E
S

Barometers steady.
For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 19.

Western Australia: Albany, 99·93, W., 3, smooth sea, temperature 68°. South Australia: Brometers high and steady, weather fine and clear, temperature 62°. Victoria: Cloudy in E., fine in W. of colony; smooth sea, steady barometers, and light westerly winds on coast; rain, inland, 0·030; Wilson's Promontory, 0·020. New South Wales: Fine clear weather inland and on coast N. of Eden; sea smooth, wind light from W. and S.W., barometers rising; no rain measured; winds very light, especially inland. Queensland: Brisbane, fine light S.W. wind, rising barometer, smooth sea, no rain; Rockhampton, fine, wind S.E. 3 p.m. Observations.—New South Wales: Wentworth, N.N.W., fine, temperature 79°; Albury, W., fine, temperature 78°; Forbes, calm, fine, temperature 103°; Moruya, S.E., fine, sea smooth, temperature 74°; Sydney, E.N.E., 14, fine, sea smooth, temperature 76°; Port Macquarie, N.E., fine, sea smooth, temperature 78°; Goulburn, calm, fine, temperature 77°; Eden, S.E., 14 cloudy, temperature 67° Cape George, N.E., fine, sea smooth Newcastle: N.E., fine, sea smooth, temperature 74°; Clarence River, E.N.E., fine, sea smooth, temperature 80°. State Rivers.—Murray: At Albury, 9 inches above summer Darling: At Wentworth, 3 feet 11 inches above summer l[illegible] Pooncarie, 7 feet 6 inches above summer level; at M[illegible] feet above summer level; at Wilcannia, 5 feet 6 in[illegible] summer level,

WEATHER MAP.

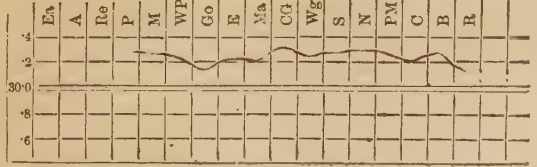
COMPILED from TELEGRAMS for 9 A.M., MARCH 19 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 19 . 8·290.
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.



Stations.	W't	M'x	Mn	R'in
asino.	b	92	58	0
enterfild	b	84	55	0
loree....	b	75	66	0
rafton..	b	93	66	0
verell..	.	..	..	.
ourke ..	b	92	63	0
arrabri	b	102	57	0
rmidale	b	77	45	0
endem'r	b	85	51	0
unned'h	b	100	53	0
oonamle	b	90	58	0
amworth	b	97	57	0
oonab rn	b	106	46	0
.Macqrie	b	79	65	0
'ilcannia	b	79	71	0
urr'undi	b	81	58	0
ssylis..	b	80	59	0
us'br'ok	b	87	62	0
ubbo...	b	83	61	0
enindie	b	86	59	0
udgee .	b	92	66	0
aitland.	b	83	70	0
ill End.	.	.	.	..
ewcastle	b	89	60	0
range..	b	74	53	0
athurst.	b	82	50	0
ondob'ln	b	72	59	0
	R.			
Forb's	b	95	59	0
tVict'ria	b	75	56	0
cton...	b	74	56	0
arcoar..	b	84	57	0
entw'th	b	88	58	0
oung...	b	80	60	0
'ollgo'ng	b	83	59	0
ay....	b	85	46	0
oss Vale	b	76	54	0
ston...	.	..	..	..
oulburn	b	85	57	0
agga...	b	83	55	0
ape Geo.	b	79	33	0
eanb'n	b	91	56	0
eniliq'in	b	75	53	0
oruya..	b	77	62	0
andra..	b	52	32	0
lbury..	b	89	48	0
Bod'lla	c	67	55	0
Cooma	b	62	46	0
Eden	g	69	60	0
Gabo	g	67	61	0

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy : very heavy.

14 30·12 R 81

CLOUDY ON S E COAST
SYDNEY o 75 64 Rain 0·003

14 30·33 S 73

0 30·26 R 66 D

14 30·26 R 64

8 67

0 60

3 64

18 61

13 62

14 63

14 35

14 70

14 72

0 70

3 75

14 71

14 70

13 3

75

WEATHER.
o-Blue sky.
c-Scattered clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
13-Li't brze
23-Mod. "
34-Fresh "
6-Strg gale
5-Whole "

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Barometers risen about ·10 on East coast For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

tions.	w't	M'x	Mn	R'in
ino..	b	89	58	0
terfild	g	73	52	0
ee....	b	91	70	0
fton..	b	91	63	0
erell..	b	88	56	0
rke ..	b	85	61	0
rabri	b	103	66	0
nidale	b	74	45	0
ndem'r	b	87	52	0
ned'h	b	114	54	0
nam'le	b	92	63	0
nworth	b	96	56	0
mab rn	b	91	56	0
lacqrie	b	79	62	0
cannia	b	84	77	0
rr'undi	b	79	52	0
sllis..	b	89	54	0
s'br'ok	b	93	69	0
bbo...	b	86	65	0
nindie	c	87	66	0
dgee..	b	90	61	0
tland.	c	85	65	0
t End.	b	79	51	0
vcastle	b	90	60	0
nge..	b	77	53	0
hurst.	b	84	49	0
dob'ln	b	78	64	0
34 88				
Forb's	b	103	63	0
Vict'ria	b	73	57	0
on...	b	84	53	0
coar..	b	80	55	0
utw'th	b	97	60	0
ng...	b	87	60	0
llgo'ng	b	84	61	0
y....	b	97	49	0
s Vale	b	80	54	0
ton...	b	101	87	0
ulburn	b	86	51	0
ga...	b	90	58	0
e Geo.	b	79	63	0
anb'n	b	93	51	0
iliq'in	b	93	50	0
uya..	b	78	57	0
ndra...	b	55	36	0
ury..	b	95	49	0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 21 1881, with NOTES to 3 P.M

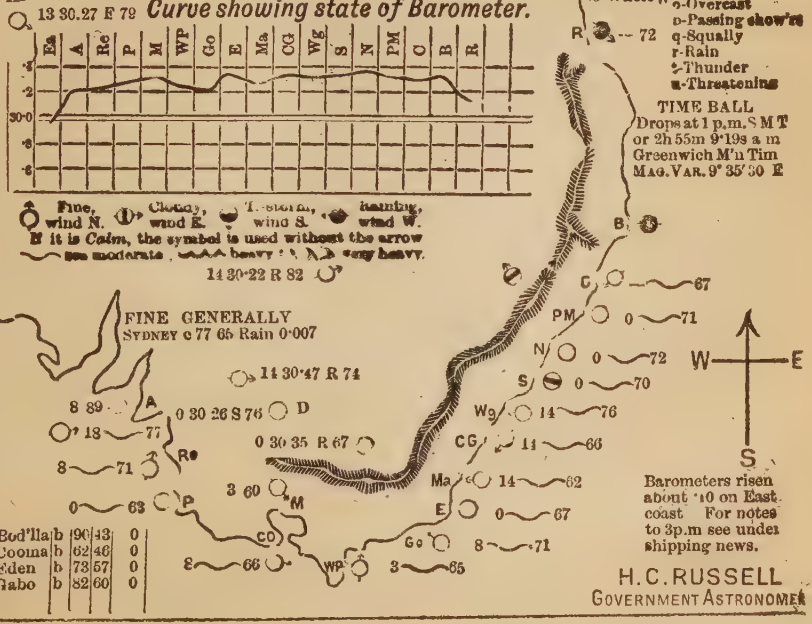
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 21 . 8·297.

Barometers corrected to 32° Fah. and Mean Sea Level.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
moderate, heavy; very heavy.



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MARCH 22.

Western Australia: Perth, fine, fresh W.S.W. wind, slight sea, barometer 30·16, temperature 79°; Albany, fine, light W. wind, barometer 30·01, temperature 61°. South Australia: Fine and clear, light northerly winds, smooth sea, and very steady barometers on coast; no rain. Victoria: Fine all round coast, with light northerly winds, smooth sea, and steady barometers, no rain has fallen; hot N. wind at Cape Otway, sea rather rough. New South Wales: Fine at all the coast stations N. of Twofold Bay, and inland at all except the far northern stations on Queensland border, sea smooth, winds light and from land, barometers stea[illegible] Queensland: Rainy weather reported from Cooktown and [illegible]ton; gloomy at Brisbane, sea moderate, barometers [illegible]m. Observations.—Victoria: Barometers falling; Por[illegible], cloudy, smooth sea, temperature 87°; Cape Otw[illegible]y, moderate sea, temperature 91°; Wilson's Pro[illegible], 8 hazy, smooth sea, temperature 74°. New Sou[illegible]north, calm, fine, temperature 75°; Deniliquin, [illegible]rature 91°; Albury, S.E., fine, temperature 80°; [illegible], fine, temperature 76°; Forbes, calm, fine, tem[illegible]; [illegible], N.N.E., 14, fine, sea smooth, temperature 73°; [illegible]ne, sea smooth, temperature 70°; Cape Geor[illegible], sea smooth, temperature 74°; Sydney, E., 8, [illegible], temperature 74°; Newcastle, N.E., fine, sea s[illegible]; [illegible] Macquarie, E., 14, threatening, se[illegible]ooth, tempe[illegible]. Clarence River, S.E., 14, fine, sea [illegible], temperatu[illegible]ate of Rivers.—Murrumbidgee; At [illegible] feet 5 inches above summer level; at Hay, summer le[illegible] Balranald, summer level. Murray: At Albury, 10 inch[illegible]mmer level; Euston, summer level. Darling: At [illegible], 3 feet 8 inches above summer level; Pooncarie, 7 feet [illegible] above summer level; Menindie, 10 feet 10 inches above summer level; Wilcannia, 4 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 22 1881, with NOTES to 3 P.M

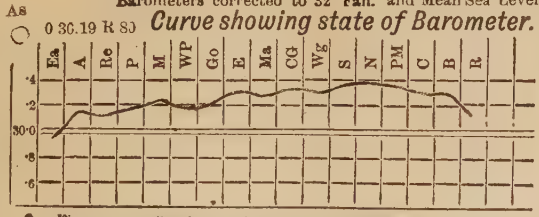
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 22 . 8·297.
Barometers corrected to 32° Fah. and Mean Sea Level

tations.	wt	M'x	Mn	R'in
sino..	r	85	66	0·16
nterfild	g	74	54	0
oree....	b	97	70	0
rafton..	b	90	65	0 15
verell..	b	84	50	0
ourke ..	b	94	66	0
arrabri	b	106	62	0
rmidale	b	72	52	0
endem'r	b	85	48	0
unned'h	b	100	51	0
oonam'le	b	92	62	0
mworth	b	99	49	0
onab ru	b	91	56	0
Macqrie	b	79	63	0
ilcannia	b	88	81	0
urr'undi	b	83	53	0
sslis..	c	84	51	0
is'br'ok	b	90	59	0
bbo...	b	89	77	0
enindie	b	97	67	0
udgee..	b	97	61	0
aitland.	f	82	63	0
ill End.	b	77	54	0
ewcastle	b	89	60	0
range..	b	78	51	0
athurst.	b	82	46	0
ndob'ln	b	78	63	0
34 89		k		
Forb's	b	104	66	0
tVict'ria	b	75	50	0
cton...	b	84	58	0
arcoar.	b	85	55	0
entw'th	b	102	66	0
oung...	b	90	62	0
ollgo'ng	b	84	60	0
ay....	b	100	60	0
oss Vale	b	78	54	0
nston...	b	105	64	0
oulburn	b	87	41	0
agga...	b	93	61	0
ape Geo.	b	79	61	0
eaub'n	b	93	54	0
eniliq'in	b	90	62	0
oruya..	b	77	55	0
andra..	b	55	36	0
lbury..	m	95	52	0
Bod'lla	b	90	48	0
Cooma	b	60	44	0
Eden	f	75	61	0
Gabo	f	82	62	0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate ; heavy ; very heavy

14 30·22 S 79

FINE GENERALLY
SYDNEY b 80 63 Rain 0·010

14 30·41 F 82

3 89 A 14 30 28 F77 D

18 77

23 30 34 R 68

3 75 Re

8 79 M

8 71 P

CO

8 85

WP 3 85

Ma 28 35

E 14 66

Gc 23 64

CG 14 64

Wg 14 77

S 0 68

N 5 74

PM 14 70

C 23 67

B 56 72

R 72

Mi'ls

WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30 E

W E S

Barometers steady. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 23.

Western Australia: Albany reports wind fresh from N. W., sea moderate, barometer 30·31, thermometer 67°. Perth reports wind fresh from S., sea smooth, barometer 30·29, thermometer 70°. South Australia: Fine light northerly winds, sea smooth, and falling barometers, calm inland, no rain. Victoria: Fine, light northerly winds, sea smooth, steady barometers, hot northerly wind all round coast, temperature high. New South Wales: Fine inland and on coast south of Port Macquarie, cloudy and threatening up north, raining at Cassilis, sea smooth, falling barometers, light northerly winds, and calms on coast. Queensland: Cloudy weather, light S.E. winds, smooth sea; rain Rockhampton, 0·160; Cooktown, 0·870. 3 p.m. Observations.—Victoria: Melbourne, N., 13, fine, temperature 94°; Cape Otway, N., 18, hot wind, sea slight, temperature 87.; Portland, W., 23, hazy, sea smooth temperature 88°; Wilson's Promontory, N.E., 13, hazy, sea smooth, temperature 79°. New South Wales: Wentworth, S.W., cloudy, temperature 83°; Albury, calm, cloudy, temperature 80°; Forbes, calm, fine, temperature 94°; Moruya, N.E., 42, fine, sea moderate, temperature 75°; Sydney, E., 8, fine, sea smooth, temperature 74°; Port Macquarie, S.E., 14, cloudy, sea smooth, temperature 74°; Deniliquin, W., fine, temperature 86°; Goulburn, N.E., fine, temperature 75°; Eden, N.N.E., 28, fine, sea smooth, temperature 75°; Newcastle, N.E., fine, sea smooth; Clarence River, S., 14, fine, sea smooth, temperature 76°.—State of Rivers: Murrumbidgee, at Wagga, 1 foot 3 inches above summer level. Murray, at Euston, 9 inches above summer level. Darling, at Menindie, 10 feet 7 inches above summer level; at Wilcannia, 4 feet above summer level.

ions.	W'b	M'x	Mn	R'in
io..	r	88	63	1·17
erfild	g	69	53	0
e....	g	92	72	0
ton..	g	82	66	0
rell..	b	78	61	0
ke ..	b	92	65	0
abri	c	104	68	0
idale	b	77	55	0
lem'r	g	78	46	0
ned'h	g	97	57	0
lam'le	c	92	65	0
worth'	c	94	56	0
nab rn	b	88	59	0
ucqrie	g	78	61	0
lannia	b	85	52	0
f'undi	b	81	58	0
nlis..	c	85	61	0
br'ok	g	87	61	0
bo...	c	85	68	0
indie	b	98	67	0
gee ..	b	93	63	0
land.	b	82	62	0
End.	b	75	53	0
castle	b	81	62	0
ge..	b	75	53	0
urst.	b	83	49	0
tob'ln	b	78	71	0
(13 70		E		
'orb's	b	95	52	0
ict'ria	b	72	52	0
n...	b	77	57	0
oar..	b	84	58	0
tw'th	b	102	67	0
ng...	b	87	60	0
go'ng	b	84	60	0
....	n	99	51	0
Vale	b	79	57	0
on...	.	..	..	..
burn	b	85	48	0
ga...	b	89	58	0
Geo.	b	77	61	0
nb'n	b	95	57	0
liq'in	b	99	54	0
aya..	b	77	58	0
dra..	b	54	36	0
ary..	b	93	50	0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 23 1881, with NOTES to 3 P.M.

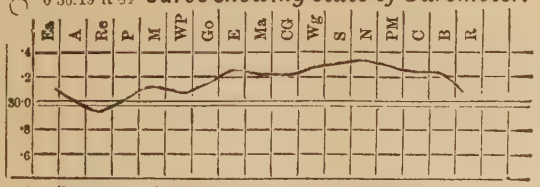
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 23 . 8·297.
Barometers corrected to 32° Fah. and Mean Sea Level

As 0 30.19 R 84

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Thunder-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate; heavy; very heavy

WIND SCALE.
1-Light breeze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

WEATHER.
o-Blue sky.
c-Scattered clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M.T.
or 2h 55m 9·19s a.m.
Greenwich M'n Tim
MAG. VAR. 9° 35′ 0 E

FINE GENERALLY
SYDNEY 77 64 Rain 0·0

0 30·16 F 79

14 30·24 E 79

3 89 A 14 30 27 F 73 D

23 30 27 F 67

8 82

13 79 Re 18 76 34 77 P M CO 18 81 WP 23 33 Go 23 69 E 14 70 Ma 23 36 CG 14 65 Wg 23 77 S 0 68 N 0 73 PM 14 67 C 56 66 B 18 76 R 72

Bod'lla	b	90	40	0
Cooma	b	59	43	0
Eden	b	74	62	0
Gabo	b	77	63	0

W — E
S

Barometers steady.
For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 24.

Western Australia: Perth, fine, light, S.E. wind, smooth sea, barometer 30·32, temperature 86°; Albany, fine, light, N.E. wind, smooth sea, barometer 30·33, temperature 65°. South Australia reports cloudy weather, squally from S. and S.W., sea rough, barometers rising; rain Cape Borda, 0·060; and Robe, 0·160. Victoria: Cloudy, with fresh westerly winds, moderate sea, and steady barometers; rain, Melbourne, 0·010; Portland, 0·040. New South Wales: Fine inland, with light variable winds and calms, fine on coast S. of Port Macquarie, sea smooth, wind light from north, and calm, barometers falling; rain at Casino, 1·730 inches. Queensland: Fine, fresh, S. winds, smooth sea (see map); Cooktown, calm, gloomy, misty, barometer 39·81, temperature 83°, rain 0·950. 3 p.m. Observations.—Victoria: Barometers rising slowly; Melbourne, S.W., 8, gloomy, temperature 74°; Portland, W.N.W., 34, passing showers, sea smooth, temperature 63°; Cape Otway, line interrupted; Wilson's Promontory, W., 18, threatening, smooth sea, temperature 60°. New South Wales: Deniliqnin, calm, cloudy, temperature 84°; Albury, N.W., fine, temperature 81°; Goulburn, calm, fine, temperature 72°; Forbes, calm, cloudy, temperature 92°; Eden, N., 20, fine, little easterly sea, temperature 75°; Cape George, N.E., 28, fine smooth sea, temperature 72°; Sydney, E.N.E., 12, fine, smooth sea, temperature 74°; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., 28, fine, smooth sea, temperature 75°; Clarence River, S.E., 14, fine, smooth sea, temperature 75°. Barometer is still falling slowly at Sydney, and now (3 p.m.) rising in Victoria. State of Rivers.—Murrumbidge: At Wagga, 1 foot 1 inch above summer level. Murray: At Albury, 8 inches above summer level. Darling: At Wentworth, 3 feet 7 inches above summer level; at Pooncarie, 7 feet 3 inches above summer level; atMenindie, 10 feet 3 inches above summer level; at Wilcannia, 3 feet 6 inches above summer level.

WEATHER MAP.

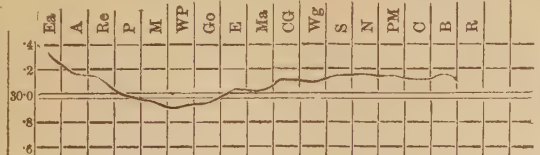
COMPILED from TELEGRAMS for 9 A.M., 24 MARCH 24 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·8*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·[illegible]48.
Total Rainfall from Jan. 1st to March 24 [illegible]·297.
Barometers corrected to 32° Fah and Mean Sea Level

0 33.23 R 7.0 ***Curve showing state of Barometer.***



Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
[illegible] moderate; [illegible] heavy; [illegible] very heavy.

14 30·06 F 78

CLOUDY ON S COAST
SYDNEY 76 64 Rain 0·0

42 30·20 F 65

23 65 A 14 30 14F 74 D
34 56
23 63 Re
14 30·11 F 67
8 70
28 64 P M
CO
WP 18 74
Go 23 70
E 14 74
Ma 28 70
CG 14 69
Wg 28 74
S 0 71
N 0 72
PM 14 68
C 14 66
B 23 74
R 73

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightening
m-Misty
p-Frost
o-Overcast
s-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
1 Light breeze
2 Gentle breeze
3 Fresh breeze
4 Strong breeze
5 Fresh gale
6 Strong gale
7 Whole gale

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W — E
S

Barometers fallen about ·20 on East coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

Bod'lla	b	88	48	0
Cooma	b	66	56	0
Eden	b	75	64	0
Gabo	b	74	66	0

METEOROLOGICAL REPORTS.—MARCH 25.

'estern Australia: Perth reports fine weather, light N.E. ds, smooth sea. South Australia: Cloudy, with light variable ds, smooth sea, and rising barometers; rain—Robe, 0·020; da, 0·040; and Adelaide, 0·040. Victoria: Cloudy and wery, fresh westerly winds, and moderate sea on coast; ometers rising; rain—Melbourne, 0·470; Wilson's Promontory, .0; and Portland, 0·090. New South Wales: Fine on coast, ıdy and threatening, rain inland to S.W., at Wagga, Young, ·bes, Queanbeyan, Albury, Kiandra; smooth sea, light ·therly winds, and falling barometers on coast. For rain see p.) Queensland: Brisbane, showery, with strong S.W. winds i moderate sea, rain 0·620; Rockhampton, showery, wind from E., rain 0·840; Cooktown, heavy rain falling, measured 9 a.m., 10 inches, wind light from E. 3 p.m. Observations.—Victoria: lbourne, S., 8, cloudy, temperature 67·; Portland, W.N.W., , showery, smooth sea, temperature 58·; Cape Otway, N. 28, owery, rather rough sea, temperature 61·; Wilson's Promonry, W., 23, cloudy, slight sea, temperature 59·. New South ales: Wentworth, S.W., fine, temperature 65·; Deniliquin, lm, fine, temperature 75·; Albury, N.N.W., showery, temperare 68·; Goulburn, N.W., cloudy, temperature 75·; Eden, N., 14, oudy, light sea, temperature 68·; Moruya, N.E., 20, thunderorm, sea moderate, temperature 73·. Cape George, N.E., 28, ne, smooth sea, temperature 73·; Sydney, E.N.E., 12, fine. nooth sea, temperature 76·; Newcastle, N.E., smooth sea; Port acquarie, N.E., 14, fine, smooth sea, temperature 77·; Clarence iver, S.E., fine, smooth sea, temperature 76·. State of Rivers.— urrumbidgee: At Wagga, 1 foot above summer level. Murray: t Albury, 9 inches above summer level. Darling: At Wentworth, feet 6 inches above summer level; at Pooncarie, 7 feet 2 inches bove summer level; at Wilcannia, 3 feet above summer level.

WEATHER MAP.

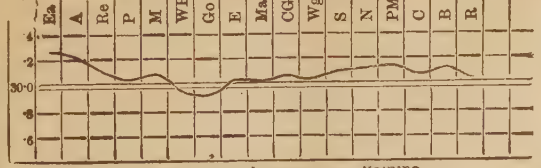
COMPILED from TELEGRAMS for 9 A.M., MARCH 25 1891, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S.; Long. 9h. 4m. 56·8s. E.

Average Annual Rainfall for 22 years . . . . . 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 25 . 8·308.
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
Sea moderate; heavy; very heavy.

Stations.	W.	Wind.	Rain.
Casino	c	S 30	0·02
Tenterfield	g	75	53	0·06
Moree	b	95	70	0
Grafton	b	84	62	0
Inverell	b	80	59	0
Bourke	b	93	34	0
Narrabri	b	100	68	0
Armidale	b	73	51	0
Bendem'r	b	84	51	0
Gunned'h	b	97	52	0
Coonamb'le	b	90	60	0
Tamworth	b	94	51	0
Coonab rn	b	87	50	0
P.Macqrie	b	77	63	0
Wilcannia	c	88	76	0·05
Murr'undi	b	79	60	0
Cassilis	b	85	35	0
Mus'br'ok	b	8	56	0
Dubbo	b	86	65	0
Menindie	b	88	49	0·06
Mudgee	b	96	56	0
Maitland	b	81	62	0
Hill End	b	73	51	0
Newcastle	b	79	65	0
Orange	b	77	52	0·16
Bathurst	b	81	49	0
Condob'lin	c	74	67	0·20
8 56	E			
Forby's	g	92	65	0
Mt Vict'ria	b	72	53	0·03
Picton	b	84	55	0
Carcoar	b	75	58	0
Wentw'th	b	68	45	0·92
Young	p	84	64	0
Wollgo'ng	b	82	61	0
Hay				
Moss Vale	b	77	57	0
Euston	b	79	48	0·38
Goulburn	b	85	49	0
Wagga	g	87	63	0·22
Cape Geo.	b	76	63	0
Queanb'n	c	88	59	0
Deniliq'in	b	88	51	0·07
Moruya	b	77	60	0
Kiandra	r	57	25	0·30
Albury	r	93	56	0·53
Cof'fs Hb	b	86	46	0
Cooma	c	60	45	0·45
Eden	b	75	64	0
Bathurst	g	75	64	0

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Barometers fallen on E., risen on S. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MARCH 26.

Western Australia: Perth, light S.S.W. wind, smooth sea, barometer 29·84, temperature 94·; Albany, light S.E. wind, smooth sea, barometer 29·96, temperature 78·. South Australia: Cloudy weather, light S. and S.W. winds, smooth sea, and steady barometers, no rain. Victoria: Cloudy, showery, and squally; sea rather rough, barometers steady, wind fresh from W.; rain—Otway, 0·21 inches; Portland, 0·70 inches; Wilson's Promontory, 0·13 inches. New South Wales: Fine at majority of stations, cloudy north on Queensland border and on coast near Sydney, sea smooth, barometers steady, winds light and calm. (For rainfall see weather map.) Queensland: Cloudy, rainy weather, with strong E. and S.E. winds; Cooktown, barometer 29·75, fine, temperature 82·, S.E., 23, rain 2·76; Brisbane, rain 0·57. 3 p.m. Observations.—Victoria: Barometers steady; Portland, W.S.W., 30, cloudy, smooth sea, temperature 62·; Cape Otway, W. 34, showery, rough sea; Wilson's Promontory, W., 34, showery, sea moderate, temperature 61·. New South Wales: Wentworth, S.E., fine, clear, temperature 68·; Deniliquin, S., fine, temperature 72·; Albury, calm, fine, temperature 66·; Goulburn, N.W., fine, temperature 73·; Forbes, calm, fine, temperature 79·; Eden, E.S.E., 20, fine, sea smooth, temperature 67·; Cape George, S.E., 10, fine, sea smooth, temperature 73·; Sydney, E., 14, cloudy, close, sea smooth, temperature 74·; Newcastle, N.E., 15, fine, sea smooth; Port Macquarie, N.E., cloudy, sea smooth, temperature 74·; Clarence River, E., like rain, sea smooth, temperature 74·. Heavy rains are still falling in some parts of Queensland; Cooktown to-day reports 2·76 inches. Light rains are falling in Victoria, but not in South Australia. Light rains fell at several stations in New South Wales (see weather map). Strong S.E. winds prevail in Queensland and westerly ones in Victoria. State of Rivers.—Murrumbidgee: At Wagga, 1 foot above summer level; at Hay, 1 inch below summer level; at Balranald, 6 inches below summer level. Murray: At Albury, 10 inches above summer level. Darling: At Wentworth, 3 feet 5 inches above summer level; at Pooncarie, 7 feet 2 inches above summer level; at Menindi, 9 feet above summer level; at Wilcannia, 2 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 26 1881, with NOTES to 3 P.M.

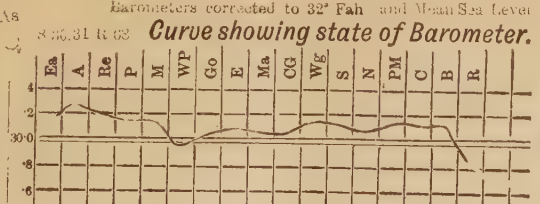
Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 26 . 8·11.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	Wt	Mx	Mn	R in
asino..	c	88	66	0·14
enterfield	g	74	51	0
oree....	g	83	72	0
rafton..	g	83	62	0
averell..	g	80	62	0
ourke ..	c	92	62	0·04
arrabri	c	94	71	0
rmidale	b	75	51	0
endem'r	b	83	63	0
unned'h	g	99	61	0
oonam'le	.	.	.	0
amworth	c	97	63	0
oonab rn	c	89	64	0·04
.Macqrie	c	79	66	0
Vilcannia	c	88	70	0
urr'undi	g	80	67	0·10
assilis..	b	84	54	0
ias'br'ok	b	92	64	0
ubbo...	b	85	64	0
enindie	b	75	46	0
udgee .	b	92	61	0
aitland.	b	85	68	0
ill End .	c	75	53	0·15
ewcastle	b	80	64	0
range..	g	75	56	0·46
athurst.	b	78	56	0·07
ondob'ln	b	70	61	0
18 74		E		
Forb's	b	86	59	0·09
tVict'ria	b	76	57	0·10
cton...	b	85	59	0·20
arcoar..	f	74	59	0·03
entw'th	b	71	44	0
oung...	b	76	60	0·04
Vollgo'ng	c	81	63	0·30
ay....	b	70	57	0
oss Vale	b	80	64	0
uston...	b	65	41	0
oulburn	b	77	56	0·19
agga...	f	70	49	0·03
ape Geo.	b	75	64	0
ueanb'n	b	79	58	0·06
eniliqin	b	74	43	0
oruya...	o	76	64	0
iandra..	b	62	34	0·45
lbury..	f	73	47	0·20

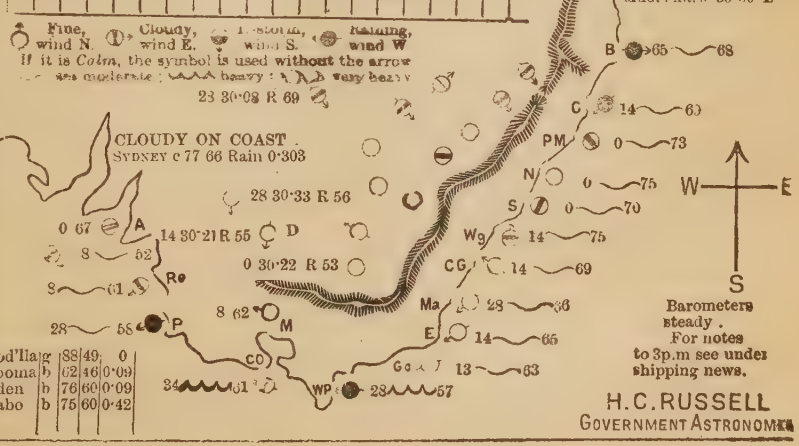
Bod'lia	g	88	49	0
Cooma	b	62	46	0·09
Eden	b	76	60	0·09
Gabo	b	75	60	0·42



Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

Mist moderate ; heavy ; very heavy



WEATHER.

o Blue sky.
c-Scattered clouds
d-Dazzling rain
f-Fog
g Gloomy, dull
h-Hail
l-Lightning
m-Misty
n Frost
o Overcast
o-Passing show'rs
q Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. = M T or 2h 55m 9·19s a m Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

Barometers steady. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 28.

South Australia reports fine weather at Robe, Eucla, and inland at Alice Springs; cloudy at Cape Borda and Adelaide; sea smooth, barometers falling; wind light from E., and calm. Victoria: Cloudy round coast, with fresh E. and S.E. winds; steady barometers and moderate sea; no rain. New South Wales: Cloudy and raining all over colony on coast line; the wind is very variable from nearly every point of compass; the barometers high and rising, and the sea moderate; inland moderate rains have fallen. (See weather map.) Queensland: Brisbane, showery, with strong E. wind and rough sea, rain 0·790; Cooktown, foggy, wind S.W., rain 0·14; Rockhampton, showery, easterly wind, rain 1·860 inches. 3 p.m. Observations.—Victoria: Melbourne, S.W., 8, light rain, temperature 66°; Cape Otway, E., 18, cloudy, moderate sea, temperature 63; Wilson's Promontory, E.S.E., 18, gloomy, slight sea, temperature 64°. New South Wales: Deniliquin, S., raining, temperature 70°; Albury, E., 14, dull, temperature 70°; Goulburn, calm, raining, temperature 68°; Forbes, calm, dull, temperature 76°; Eden, N.E., showery, light sea, temperature 70°; Cape George, S.E., 14, cloudy, smooth sea, temperature 79°; Sydney, E.N.E., 14, dull, smooth sea, temperature 72°; Newcastle, N.E., dull, smooth sea; Port Macquarie, N.E., 42, hazy, smooth sea, temperature 76°; Clarence River, E.N E., 30, moderate sea, like rain, temperature 78°. A fresh N.E. gale is blowing north of Newcastle, but up to 3 p.m. the wind was not increasing, and there was little or no sea. At night the force of wind from E.N.E. increased, but without rain up to 9 p.m. It will be seen in the weather map that moderate rains have fallen on the Darling—1·131 at Bourke, 0·86 at Wilcannia, and 0·80 at Menindi. State of Rivers.—Darling: At Wentworth, 3 feet 5 inches above summer level; at Pooncarie, 7 feet above summer level; at Meninde, 8 feet above summer level; at Wilcannia, 1 foot 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 28 1881, with NOTES to 3 P.M.

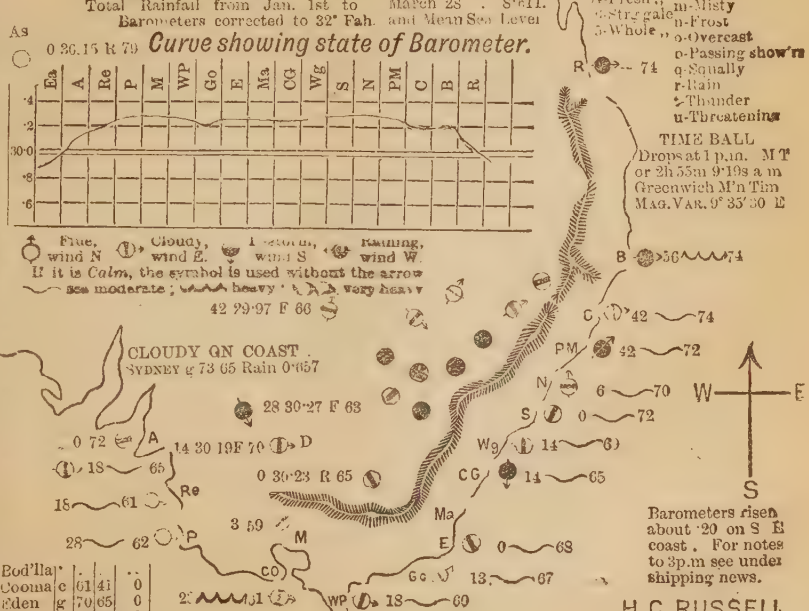
Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 28 . 8·611.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	wt	M'x	Mi	R'in
Casino..	c	81	67	0·32
Tenterfild	c	67	53	0·65
Moree....	g	72	69	0.66
Grafton..	p	79	69	0·77
Inverell..	g	79	60	0·57
Bourke ..	c	74	66	1·31
Narrabri	g	77	66	0·26
Armadale	g	73	57	0·21
Bendem'r	g	81	53	0·21
Gunned'h	g	87	57	0·60
Coonam'le	g	75	64	0·35
Tamworth	c	82	63	0·28
Coonab'rn	c	77	62	0·29
P.Macqrie	p	77	68	0 86
Wilcannia	r	83	39	0·86
Murr'undi	g	77	66	0·12
Cassilis..	p	80	63	0 29
Mais'br'ok	g	80	66	0·28
Dubbo...	r	81	62	0·21
Menindie	r	84	46	0·80
Madgee .	p	87	63	0·20
Maitland.	r	88	71	0·10
Hill End.	r	70	53	0·15
Newcastle	c	80	69	0
Orange..	r	68	59	0·31
Bathurst.	r	79	60	0·19
Condob'lin	r	72	60	0·43
(18 72)		E.		
Forb's	r	80	53	0·12
McVict'ria	r	59	55	0·33
Picton...	r	64	54	0·83
Carcoar..	r	73	59	0·12
Wentw'th	p	83	60	0·20
Young...	g	79	64	0
Wollgo'ng	c	69	63	1·45
Hay....	g	83	44	0
Moss Vale	c	73	57	0·28
Euston...	g	85	60	0
Goulburn	g	66	57	0·02
Wagga...	g	82	48	0
Cape Geo.	p	69	63	0·69
Queanb'n	r	71	53	0·10
Deniliq'in	g	85	47	0
Moruya..	.	.	.	..
Kiandra..	c	58	40	0
Albury..	g	83	45	0·25

Bod'lla	.	.	.	..
Cooma	c	61	41	0
Eden	g	70	65	0
Gabo	g	74	65	0



Barometers risen about ·20 on S E coast . For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—March 29.

South Australia: Cloudy with light variable winds, smooth sea, and falling barometers; no rain. Victoria: Cloudy and raining; strong easterly winds; falling barometers and rough sea. Rain at Cape Otway, 0.050; Melbourne, 0.510, and Wilson's Promontory, 0.290; dense fog off Cape Otway. New South Wales: Cloudy and raining all over colony, for amount see weather map; smooth sea; moderate N. winds, and falling barometers on coast; rain extends inland as far as Bourke. Queensland: Cloudy weather; strong E. wind; rough sea. 3 p.m. Observations.—Victoria: Melbourne, E., 3 cloudy, temperature 75·; Portland, S.E., 28, overcast, rough sea, temperature 65·; Cape Otway, E.S.E., 18, fog, sea rather rough, temperature 65·; Wilson's Promontory, N.E., 28, fog, moderate sea, temperature 64·. New South Wales: Wentworth, N.W., dull, temperature 66·; Goulburn, N.E., showery, temperature 69·; Forbes, calm, showery, temperature 69·; Eden, N.E., 28, showery, moderate sea, temperature 71·; Moruya, N.E., 30, showery, little sea, temperature 70·; Sydney, N., 8, dull, sea smooth, temperature 70·; Newcastle, N.N.W., raining, smooth sea; Clarence River, E.N.E., 28, fine, moderate sea, temperature 77·. It will be seen in the weather map that rain fell all over the colony yesterday. Wilcannia reports 2·63; Hay, 3·40; Denliliquin, 2·18. State of Rivers.—Murray: At Albury, 9 inches above summer level; Darling: At Wentworth, 3 feet 3 inches above summer level; Pooncarie, 6 feet 11 inches above summer level; Menindie, 7 feet 3 inches above summer level; Wilcannia, 2 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 29 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 29 . 9·270.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	Min	Rain
asino..	c	85	67	0·15
enterfild	g	67	56	0·08
oree....	r	75	66	1·17
rafton...	p	84	61	0·07
nverell..	r	75	62	0·10
ourke ..	c	75	66	0·20
arrabri	r	82	65	1·30
rmidale	g	69	58	0
endem'r	r	75	62	0·14
unned'h	.	..	..	.
oonam'le	g	73	63	1·13
amworth	r	88	60	0·21
oonab rn	r	77	61	1·11
.Macqrie	g	78	69	0·41
Vilcannia	b	88	70	2·63
urr'undi	r	75	65	0·25
assilis..	,	..	..	.
lus'br'ok	r	80	64	0·16
ubbo...	r	74	64	0·56
enindie	c	69	63	0·50
udgee..	r	74	62	0·25
aitland.	r	81	69	0·20
ill End.	g	67	60	0·11
ewcastle	r	79	69	0·04
range..	g	66	60	0·22
athurst.	p	68	61	0·23
ondob'ln	p	70	61	0·45
23 77				
Forb's	p	77	49	0·48
Vict'ria	r	69	58	0·50
cton...	g	74	66	0·86
arcoar...	g	67	60	0·20
entw'th	g	73	62	0·18
oung...	r	70	65	0·65
ollgo'ng	g	76	68	0·14
ay....	r	71	52	3·40
oss Vale	r	66	61	0·44
nston...	r	76	59	0
oulburn	g	67	61	0·31
agga...	r	73	64	1·09
pe Geo.	p	72	63	0·24
eanb'n	r	71	62	0·70
eniliq'in	r	72	60	2·18
oruya..	r	74	66	0·18
andra..	r	58	39	1·00
bury..	r	69	61	1·97
Bod'lla	r	83	57	0·63
Cooma	p	63	48	0·29
Eden	r	71	67	0·99
Gabo	r	71	65	0·31

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MARCH 30.

South Australia: Cloudy, with light northerly wind, smooth sea, and rising barometers; no rain. Victoria: Cloudy, with fresh N. winds, rising barometers and moderate sea; dense fog at Wilson's Promontory and Cape Otway; no rain. New South Wales: Weather still cloudy, with rain falling at many of the inland N.W. and W. stations, smooth sea, light northerly winds and steady barometers on coast. (For rainfall, &c., see weather map.) Queensland: Brisbane, showery, light N.W. wind, rain 0·020, sea rough; Rockhampton, cloudy, wind N.W., rain 0·03; Cooktown, showery, light E. wind, rain 1·820 inch. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, W., 8, fine, temperature 80°; Cape Otway, N.W., 18, cloudy, fine, smooth sea, temperature 73.; Wilson's Promontory, N., 8, cloudy, moderate sea, temperature 82°. New South Wales: Forbes, calm, dull, temperature 68°; Moruya, N.W., 28, fine, rough sea, temperature 83·5; Sydney, N., 8, fine, smooth sea, temperature 80°; Port Macquarie, N.E., 28, cloudy, sea moderate, temperature 74·5; Deniliquin, calm, fine, temperature 76°; Goulburn, W., dull, temperature 71°; Eden, N.E., 14, fine, smooth sea, temperature 74°; Cape George, N., 28, fine, smooth sea, temperature 73°; Newcastle, N.E., fine, smooth sea; Clarence River, N.E., fine, moderate sea, temperature 77°. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 1 inche above summer level. Murray: At Albury, 1 foot above summer level. Darling: At Wentworth, 3 feet 1 inch above summer level; at Pooncarie, 6 feet 5 inches above summer level; Menindie, 6 feet 6 inches above summer level; Wilcannia, 2 feet 9 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 30 1881, with NOTES to 3 P.M.

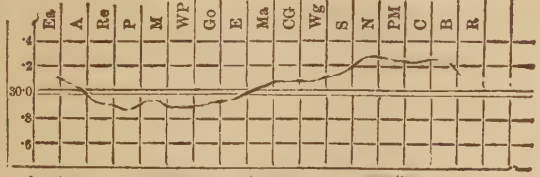
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 30 9·389.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wb	Max	Min	Rain
Casino.	c	83	33	0·09
Grafton	p	67	54	0·13
Goree	g	70	66	0·47
Grafton	g	71	63	0·02
Grafton	g	70	64	0·65
Hunter	b	80	57	0·07
Jarrabri	g	77	66	0·22
Armidale	g	69	55	0·15
Gundem'r	g	68	61	0·34
Gunnedah	g	72	50	0·38
Bonamble	c	68	60	0·19
Camworth	c	76	59	0·23
Bonab'rn	r	67	61	0·55
Macquarie	b	79	65	0
Wilcannia	b	77	60	0
Murr'undi	p	75	63	0·13
Hassilis	r	70	61	0·35
Hughes	g	76	64	0·20
Dubbo	g	72	66	0·41
Penindie	b	74	61	0
Cudgee	g	67	62	0·25
Maitland	c	76	57	0·43
Hill End	r	63	54	0·23
Newcastle	g	73	67	0·09
Orange	g	65	49	0·28
Bathurst	g	64	59	0·17
Condob'lin	c	70	61	0·12
Forb's	p	71	51	0·52
Vict'ria	g	60	55	0·03
Deniliquin	b	77	63	0·36
Narrandera	g	65	60	0·07
Wentw'th	b	71	59	0
Young	r	68	62	0·58
Collgo'ng	b	76	65	0·22
Bay	g	79	51	0·10
Moss Vale	b	65	58	0·08
Muston	b	79	60	0
Goulburn	g	68	59	0·02
Cooma	g	73	64	0·41
Cape Geo.	b	74	65	0
Braidw'd	p	67	61	0·65
Deniliq'n	g	75	59	0
Corowa	b	73	63	0·10
Albany	c	69	40	1·20
Albury	r	71	64	1·52
Bed'lla	b	75	60	0·04
Coonamble	c	66	51	0
Walgen	b	74	65	0·10
Cabo	.	..	.	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Storm, wind S. Rain, wind W.
If it is *Calm*, the symbol is used without the arrow.
Sea moderate; heavy; very heavy.

WIND SCALE.
0-Calm
1-Light brze
2-Mod. "
3-Fresh "
4-Strg gale
5-Whole "

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

CLOUDY
SYDNEY c 73 66 Rain 0·119

28 30·10 R 78
28 30·14 R 70
0 30 11R 70
14 30·12 R 69
3 72
18 64
8 67
34 68
18 76
15 73
R 68
B 3 69
C 14 69
PM 0 72
N 5 70
S 10 72
Wg 14 73
CG 23 67
Ma 42 60
E 14 70
WP 23 70
W E S

Barometers risen about ·15 on S W coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MARCH 31.

Western Australia: Perth, fine, fresh E.N.E. wind, smooth sea; Albany, fine, light N.E. wind, smooth sea. South Australia reports cloudy weather; fresh westerly squalls, rough sea, and rising barometers on coast; no rain; fine inland; cloudy, light W. wind up N.; Port Darwin, barometer 29·88 W., 8, cloudy, sea smooth, 85°, no rain; Daly Waters, barometer 30·03, N.W., 8, cloudy, no rain. Victoria: Cloudy, rainy weather on coast, with moderate sea, fresh westerly winds, and rising barometers; rain, Melbourne 0·030, Otway 0·190, Portland 0·020, and Wilson's Promontory 0·120. New South Wales: Fine up N. and on coast; cloudy S. W. and S.; raining at Kiandra; smooth sea, falling barometers, and light N.W. winds on coast. Queensland: Fine weather at Brisbane; sea rough, wind S.W.; Cooktown, showery, rain 0·760. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, W.S.W., 23, cloudy, temperature 65°; Portland and Wilson's Promontory lines interrupted; Cape Otway, W., 56, squally, with rain, high sea, temperature 59°. Strong westerly gale, with rain, on the coast of Victoria. New South Wales: Deniliquin, calm, fine, temperature 70°; Forbes, calm, dull, temperature 72°; Goulburn, W., gloomy, temperature 74°; Albury, W., 11, fine, temperature 71°; Eden, S.W., 14, gloomy, light sea, temperature 60°; Moruya, S., 40, very heavy thunderstorm, rough sea, temperature 75°; Cape George, W., 28, cloudy, smooth sea, temperature 80°; Sydney, calm, fine, close, smooth sea, temperature 84°; Newcastle, N.W., fine; Port Macquarie, N.E., 42, fine, moderate sea, temperature 75°; Clarence River, E.N.E., 14, fine, moderate sea, temperature 78°. State of Rivers. Murrumbidgee: At Wagga, 1 foot 9 inches above summer level; at Balranald, summer level. Murray: At Albury, 3 feet 6 inches above summer level; at Euston, summer level. Darling: At Wentworth, 3 feet 1 inch above summer level; at Pooncarie, 6 feet 3 inches above summer level; at Menindie, 5 feet above summer level; at Wilcannia, 2 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MARCH 31 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to February 28 9·843.
Total Rainfall from Jan. 1st to March 31 . 9·390.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wt	Max	Min	Rain
asino.	e	85	61	0·02
enterfild	b	73	56	0
oree....	n	82	69	0
ratton..	f	80	65	0·03
ywerell..	g	76	60	0
eurke ..	b	88	64	0
arrabri	b	83	61	0
rmudale	b	70	54	0
endem'r	b	76	54	0
unnedi'h	b	87	52	0
eonam'le	b	75	60	0
amworth	b	84	54	0
conab rn	g	70	53	0·13
.Macqrie	b	75	69	0
Vilcannia	b	89	78	0
urr'uudi	b	73	61	0
ssylis..	b	76	60	0·02
as'br'ok	b	84	64	0
ubbo...	b	71	65	0
enindie	b	90	63	0
ndgee .	g	73	63	0·06
aitland.	b	83	57	0
ill End.	c	65	50	0·11
ewcastle	b	85	65	0
range..	g	68	61	0·28
athurst.	b	68	61	0·12
adob'lin	b	75	64	0
13 67				
Forb's	g	75	53	0
Viet'ria	c	63	55	0·02
cton...	b	85	57	0
arcoar..	c	65	58	0·13
entw'th	b	92	61	0
oung...	g	75	64	0·06
ollgo'ng	b	85	66	0
ay....	b	84	53	0
loss Vale	n	75	69	0
uston...	c	93	61	0
oulburn	b	75	60	0
agga...	g	80	65	0·03
ape Geo.	b	78	67	0
ueanb'n	g	79	69	0·04
eniliq'in	g	73	62	0
oruya..	g	86	67	0
iandra..	r	60	45	0·25
lbury..	g	80	68	0
Bod'lla	g	92	55	0
Cooma	c	72	56	0
Eden	g	75	66	0
Gabo	.	..	.	..

WIND SCALE.

0-Calm
1-Light breeze
2-Mod. ,,
3-Fresh ,,
4-Strong gale
5-Whole ,,

WEATHER.

a-Blue sky
c-Scattered clouds
d-Drizzling rain
f-Fog
g (Gloomy, dull
h Hail
j-Lightning
m-Misty
n-Frost
o-Overcast
o-Passing showers
q Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL

Drops at 1 p.m. S M T or 2h 55m 9·198 a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′ 50″ E

Curve showing state of Barometer.

8 30 32 R 85

Ea A Re P M WP Go E Ma CG Wg S N PM C B R

+3 +2 30·0 −3 −6

Fine, wind N. Cloudy, wind E. Rain, wind S. Raining, wind W

If it is *Calm*, the symbol is used without the arrow

sea moderate ; heavy ; very heavy

14 30·16 R 78

CLOUDY
SYDNEY b 82 68 Rain 0·001

28 30·35 F 64

18 66 A 28 30 20k 66 D

23 61

28 30 12 S 72

23 63 Re

18 66 M

48 60 P

48 62 CO

28 62 Wg

Go

Ma 14 75

E 14 66

CG 14 75

Wg 14 79

S 1 73

N 6 75

PM 0 71

C 14 66

B 13 61

R 74

Barometers risen about ·15 on S W coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL,
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 1.

Victoria: Cloudy, fresh S. winds, rising barometers and rough sea; passing showers at Melbourne; rain, Cape Otway, 0·250; Portland, 0·080; Melbourne, 0·140; and Wilson's Promontory, 0·030. New South Wales: Fine at generality of inland stations, especially in N.W. and western districts, and in Riverina; cloudy on coast, and showery from Port Macquarie southwards as far as Cape St. George; smooth sea, fresh southerly winds, and rising barometers; barometers falling N., near Queensland border. Queensland: Brisbane, fine light S.W. wind, rough sea; Cooktown, squally; rain, 0·110. 3 p.m. Observations.—Victoria, Melbourne, S., 13, fine, temperature 60·; Cape Otway, S.S.E., 8, gloomy, rough sea, temperature 59·; Portland, E.S.E., 28, cuff, slight sea, temperature 58·; Wilson's Promontory, E.N.E., 18, cloudy, moderate sea, temperature 59·. New South Wales: Wentworth, S.E., fine, temperature 64·, Albury, calm, cloudy, temperature 69·; Forbes, calm, fine, temperature, 80·; Moruya, S.E., 40, squally, sea rough, temperature 66·; Sydney, S., 28, cloudy, moderate sea, temperature 66·; Port Macquarie, S., 42, raining, smooth sea, temperature 72·; Deniliquin, calm, fine, temperature 72·; Goulburn, S., fine, temperature 68·; Eden, S.W., 28, fine, light sea, temperature 62·; Cape George, S., 42, fine, moderate sea, temperature 65·; Newcastle, S., fine, smooth sea; Clarence River, S., 42, fine, smooth sea, temperature 78·. State of Rivers.—Murrumbidgee: At Wagga, 3 feet above summer level. Murray: At Albury, 4 feet 9 inches above summer level. Darling: At Wentworth, 3 feet above summer level; at Pooncarie, 6 feet 2 inches above summer level; at Menindie, 4 feet 4 inches above summer level; at Wilcannia, 2 feet above summer level.

Stations	Wt	Max	Min	Rain
Bro..	b	87	62	0
Waterfild	b	76	48	0
Tree....	b	84	69	0
Clifton..	b	89	63	0
Berell..	b	76	5	0
Burke ..	b	92	62	0
Corrabri	b	91	67	0
Armidale	g	73	57	0
Gundem'r	g	80	57	0
Armed'h	c	90	55	0
Tenterfield	b	85	61	0
Grafton	c	84	56	0
Inverab'rn	c	83	59	0
Macquarie	p	77	65	0
Deniliquin	b	80	..	0
Murr'undi	g	79	67	0
Wellis..	b	82	60	0
Albr'ok	b	88	67	0
Albo...	b	71	62	0
Bourindie	b	72	49	0
Bridgee ..	b	87	58	0
Maitland.	c	85	70	0
Bell End.	b	72	53	0·21
Newcastle	b	95	67	0
Orange..	b	73	49	0·11
Bathurst.	b	77	41	0
Cadob'lin	b	66	58	0
Forbes	b	79	56	0
Vict'ria	b	79	46	0
Dubbo...	b	84	56	0·01
Barcoar..	o	79	50	0·12
Deniliw'th	b	75	48	0
Young...	b	77	52	0
Goulgo'ng	p	89	58	0·04
Hay....	o	73	38	0
Moss Vale	b	75	50	0·08
Kaston...	b	75	50	0
Goulburn	b	79	45	0·12
Tumagga...	b	76	51	0
Cape Geo.	o	89	57	0·17
Queanb'n	b	79	49	0
Deniliq'n	b	71	46	0
Moreya..	b	88	57	0·35
Candra..	c	44	25	0·25
Albury..	b	74	48	0·05
Bod'lla	n	85	51	0·05
Cooma	c	85	37	0
Eden	b	68	57	0·35
Gabo	.	..	.	..

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 1 1881, with NOTES to 3 P.M.

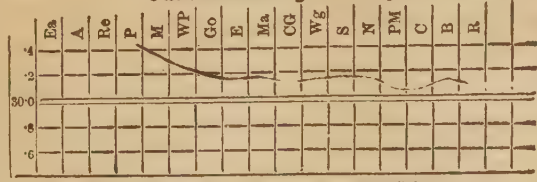
Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 . 14·943.
Total Rainfall from Jan. 1st to April 1.... 9·390.
Barometers corrected to 32° Fah and Mean Sea Level

As

Curve showing state of Barometer.

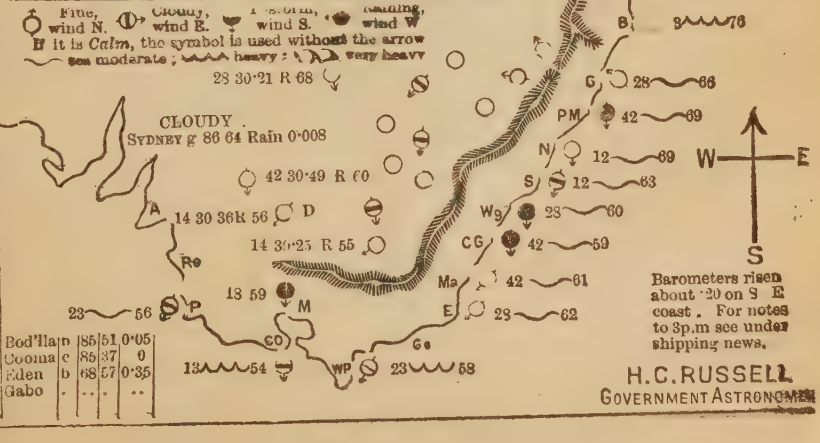


Fine, wind N. Cloudy, wind E. Fog, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

WIND SCALE.
1-Light breze
3-Mod. "
4-Fresh "
5-Strg gale
6-Whole "

WEATHER.
o-Blue sky .
e-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E



Barometers risen about ·20 on S E coast. For notes to 3p.m see under shipping news.

H.C.RUSSELL.
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 2.

South Australia: Cloudy with light southerly winds, steady barometers, and smooth sea; no rain. Reports not received from inland stations. Victoria: Weather clearing, light S. and S.E. winds, steady barometers, and moderate sea on coast; no rain. New South Wales: Fine inland; cloudy, showery, and squally from S. all down coast; barometers rising; sea smooth. For rainfall and weather at each station, see weather map. Queensland: Brisbane, fine, with considerable sea on coast, light S.W. wind; Rockhampton and Cooktown, fine and clear. 3 p.m. Observations.—Victoria: Barometers fallen 0·16 since 9 a.m.; Portland, E.S.E., 28, cloudy, smooth sea, temperature 62°; Cape Otway, E., 18, cloudy, smooth sea, temperature 60°; Wilson's Promontory, E., 18, cloudy, smooth sea, temperature 58°. New South Wales: Wentworth, S.W., fine, temperature 85°; Deniliquin, calm, fine, temperature 69°; Albury, calm, fine, temperature 68°; Goulburn, S., cloudy, temperature 62°; Forbes, calm, fine, temperature 82°; Eden, S.W., fine, sea moderate, temperature 61°; Cape George, S., cloudy, sea moderate, 60°; Sydney, S.W., 25, passing showers, sea moderate, temperature 59°; Newcastle, S.S.E., fine, sea moderate; Port Macquarie, S., 40, squally, sea moderate, temperature 68°. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 3 inches above summer level. Murray: At Albury, 5 feet 6 inches above summer level. Darling: At Wentworth, 2 feet 11 inches above summer level; at Pooncarie, 6 feet above summer level; at Menindie, 4 feet above summer level; at Wilcannia, 1 foot 9 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 2 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 . 14·943.
Total Rainfall from Jan. 1st to April 2.... 9·390.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	m	R'in
Bassino..	b	93 55	0·50	
Tenterfield	b	78 47	0·16	
Goree....	b	85 61	0	
Grafton..	g	86 51	0·55	
Inverell..	b	74 52	0	
Bourke ..	b	87 56	0	
Narrabri	b	93 56	0	
Armidale	g	72 43	0	
Bendem'r	b	79 51	0	
Gunned'h	b	92 46	0	
Coonam'le	b	72 50	0	
Tamworth	c	85 45	0	
Coonab rn	b	74 46	0	
P. Macqrie	q	70 58	0·28	
Wilcannia	.	.. ..	..	
Murr'undi	g	73 54	0	
Dessilis..	b	74 54	0	
Mus'br'ok	b	79 54	0	
Dubbo...	b	71 57	0	
Menindie	.	.. ..	..	
Mudgee .	b	87 56	0	
Maitland.	c	79 76	0	
Hill End.	g	67 45	0	
Newcastle	p	81 57	0	18
Orange..	b	67 44	0	
Bathurst.	b	69 46	0	
Condob'lin	b	65 56	0	
18 67		R		
Forb's	b	82 58	0	
MtVict'ria	g	64 43	0	
Picton...	b	75 53	0	
Carcoar..	c	65 45	0	
Wentw'th	.	.. ..	.	
Young...	b	72 50	0	
Wollgo'ng	p	78 56	0·17	
Hay....	b	69 39	0	
Moss Vale	r	62 44	0·72	
Euston...	b	70 45	0	
Goulburn	b	65 44	0	
Wagga...	b	70 46	0	
Cape Geo.	b	79 54	0	
Queanb'n	b	75 49	0	
Deniliq'in	b	67 45	0	
Moruya..	g	79 54	0	
Kiandra..	c	63 25	0	
Albury..	b	72 46	0	
Bod'll'ne		75 51	0	
Cooma	p	47 32	0·04	
Eden	r	67 53	0·07	
Gabo	.	.. ..	..	

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Raining, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate ; heavy ; very heavy

28 30·20 R 64

RAINING ON COAST.
SYDNEY r 68 55 Rain 0·666

8 60 A 14 30 42R 67 D
8 be
0 30·37 R 58
8 57 Re
18 57 M
28 58 P
CO
13 59
WP 18 60
Go
Ma 42 56
E 28 55
CG 42 53
Wg 28 56
S 10 56
N 12 58
PM 56 62
C
B 3 72
R 73

WEATHER.
o-Blue sky.
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Light'ning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
1-Light breze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W E S

Barometers risen about ·20 on E coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 4.

South Australia reports cloudy weather on S. coast, with light variable winds, smooth sea, and falling barometers. Port Darwin, calm and cloudy, smooth sea. Daly Waters, calm and fine. Victoria: Cloudy and raining, moderate sea, fresh westerly winds, and falling barometers round coast. Rain: Melbourne, 0·920; and Cape Otway, 0·070. New South Wales: Fine clear weather all over colony, smooth sea, rapidly falling barometers, and fresh W. winds on coast. Queensland: Brisbane, fine, light S.W. winds; Rockhampton, fine, wind S.E.; Cooktown, fine, wind S.E. 8 miles. 3 p.m. Observations.—Victoria: Melbourne, W., 13, cloudy, temperature 61°; Cape Otway, W., 28, cloudy, temperature 58°; Port and, S.W., 28, cloudy, smooth sea, temperature 60°; Wilson's Promontory, W.S.W., 34, dull, rather rough sea, temperature 57°. New South Wales: Wentworth, N., fine, temperature 69°; Albury, N.W., cloudy, temperature 68°; Forbes, calm, fine, temperature 72°; Sydney, W.N.W., 8, fine, smooth sea, temperature 71°; Port Macquarie, N.E., 28, fine, moderate temperature 72°: Goulburn, W., fine, temperature 64°; Eden, E., 14, fine, little sea, temperature 70°; Cape George, S.W., 28, fine, smooth sea, temperature 67°; Newcastle, N.W., fine, smooth sea. Clarence River, N.E., fine, smooth sea, temperature 74°. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 5 inches above summer level. Murray: At Albury, 3 feet 11 inches above summer level. Darling: At Wentworth, 2 feet 10 inches above summer level; at Pooncarie, 5 feet above summer level; at Menindi, 3 feet above summer level; at Wilcannia, 1 foot 6 inches above summer level.

WEATHER MAP.

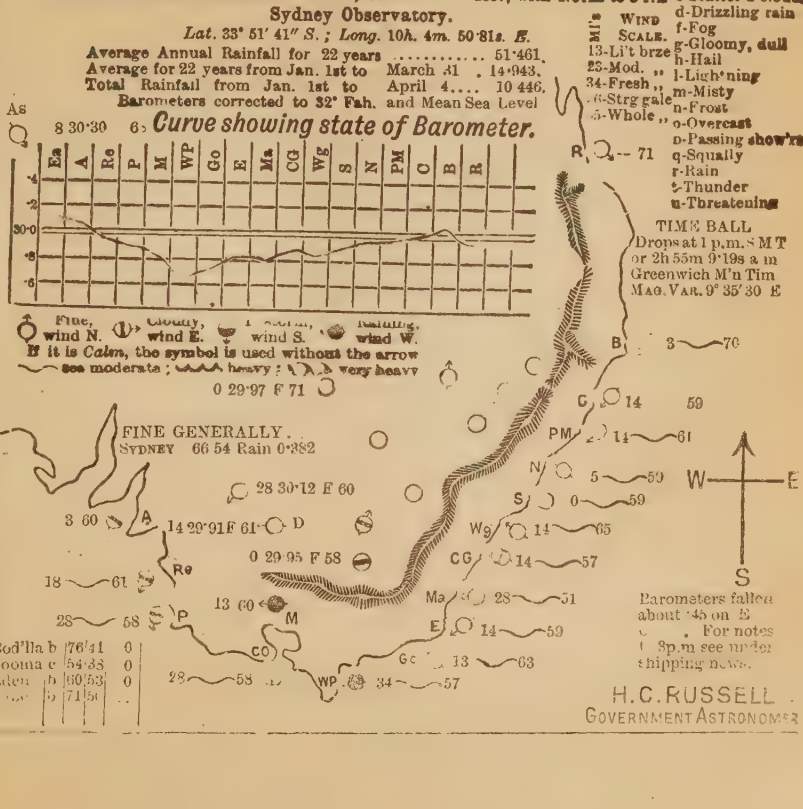
COMPILED from TELEGRAMS for 9 A.M., APRIL 4 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 . 14·943.
Total Rainfall from Jan. 1st to April 4.... 10 446.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'b	M'x	Mn	R'in
Casino..	b	81	51	0
Centerfield	b	70	45	0
Moree....	b	87	61	0
Grafton..	b	82	57	0
Inverell..	b	73	47	0
Bourke ..	b	73	65	0
Narrabri	b	94	53	0
Armidale	b	65	40	0
Bendem'r	b	71	38	0
Gunned'h	c	85	39	0
Goonam'le	c	76	49	0
Camworth	b	81	38	0
Goonab rn	b	76	41	0
C.Macqrie	b	70	54	0
Vilcannia	b	73	68	0
Murr'undi	b	69	48	0
Cassilis..	b	73	44	0
Cas'br'ok	b	75	46	0
Dubbo...	b	69	53	0
Menindie	b	96	49	0
Cudgee..	b	86	45	0
Gaitland.	b	71	52	0·09
Hill End.	b	67	45	0
Newcastle	b	79	51	0
Orange..	b	60	41	0
Orthurst.	b	69	38	0
Condob'ln				
8 70				
Port Forb's	b	81	57	0
Port Vict'ria	c	60	44	0·02
Raton...	b	76	50	0
Murcoar..	c	67	43	0
Wentw'th	b	82	53	0
Young...	c	71	48	0
Pollgo'ng	b	71	51	0
Bay....	b	77	38	0
Moss Vale	b	63	46	0
Braston...	b	80	44	0
Queanbeyan	b	71	39	0
Tumagga...	b	63	45	0
Cape Geo.	g	67	52	0
Macleay'b	b	78	41	0
Bodalliq in	g	74	42	0
Kuruya..	b	70	50	0
Bod'lla b		76	41	0
Cooma c		54	38	0
Balen b		60	53	0
[illegible] b		71	56	..



H.C.RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 5.

Western Australia: Raining at Eucla. South Australia: Reports cloudy weather, with light northerly winds and smooth sea; fine and calm inland, at Alice Springs and Daly Waters; Port Darwin, cloudy, wind N.W., 8 miles. Victoria: Cloudy and threatening all round coast, rough sea at Cape Otway, moderate at other stations; barometers rising, wind fresh from N.; rain, Wilson's Promontory, 0·160. New South Wales: Fine clear weather prevails all over the colony; on coast line the winds are light and variable, or else calm; the barometers show a steady rise of about ·20 on yesterday's reading, and the sea is smooth, no rains. Queensland: Brisbane, fine, light S.W. wind, smooth sea, no rain; Rockhampton, fine, wind E., no rain; Cooktown, fine, light S.E. wind, no rain. 3 p.m. Observations.—Victoria: Melbourne, S., 8, dull, temperature 64°; Portland, N.W., 28, dull, sea smooth, temperature 61°; Cape Otway, N.W., 13, gloomy, light, temperature 60°; Wilson's Promontory, W., 13, gloomy, sea smooth, temperature 58°. New South Wales: Albury, W., 14, cloudy, temperature 66°; Goulburn, W., fine, temperature 68°; Forbes, calm, fine, temperature 76°; Eden, calm, fine, sea smooth, temperature 67°; Moruya, N.E., 20, fine, sea moderate, temperature 71°; Cape George, N.E., 28, fine, sea moderate, temperature 70°; Sydney, E., 12, fine, sea smooth, temperature 70°; Newcastle, E.N.E., fine, sea smooth; Port Macquarie, E., 14, sea moderate, temperature 72°; Clarence River, N.E., 14, fine, sea mooth, temperature 75° State of Rivers.—Murrumbidgee: At Wagga, 3 feet 9 inches above summer level. Murray: At Albury, 2 feet 11 inches above summer level. Darling: At Wentworth, 2 feet 9 inches above summer level; at Pooncarie, 5 feet 6 inches above summer level; at Menindi, 3 feet 10 inches above summer level; at Wilcannia, 1 foot above summer level.

ations.	w't	M'x	Mn	R'in
sino..	b	84	53	0
aterfild	b	73	40	0
ree....	b	86	59	0
afton..	b	85	57	0
erell..	b	73	47	0
urke ..	b	83	59	0
rrabri	b	91	52	0
nidale	b	67	41	0
ndem'r	b	76	61	0
nned'h	b	87	37	0
onam'le	b	76	50	0
nworth	b	81	38	0
nab rn	b	76	39	0
Iacqrie	b	74	56	0
lcannia	b	74	70	0
rr'undi	b	72	48	0
silis..	b	75	44	0
s'br'ok	b	80	46	0
obo...	b	76	54	0
nindie	b	80	46	0
lgee..	b	84	36	0
tland.	b	75	52	0
End.	b	69	43	0
vcastle	b	79	60	0
nge..	b	63	42	0
hurst.	b	69	40	0
dob'ln	.	..	..	..
0 63				
Forb's	b	80	54	0
Vict'ria	b	61	46	0
on...	b	74	47	0
coar..	b	63	45	0
atw'th	b	82	58	0
ng...	b	73	49	0
lgo'ng	b	83	52	0
....	b	77	41	0
s Vale	b	66	45	0
on...	b	80	53	0
iburn	b	70	41	0
ga...	b	70	58	0
Geo.	b	77	53	0
anb'n	b	73	49	0
iliq'in	b	75	43	0
lva..	b	77	51	0
dra..	b	52	32	0
ary..	b	75	44	0

WEATHER MAP.

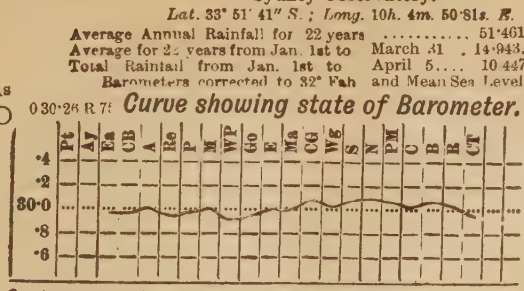
COMPILED from TELEGRAMS for 9 A.M., APRIL 5 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 . 14·943.
Total Rainfall from Jan. 1st to April 5.... 10 447.
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.

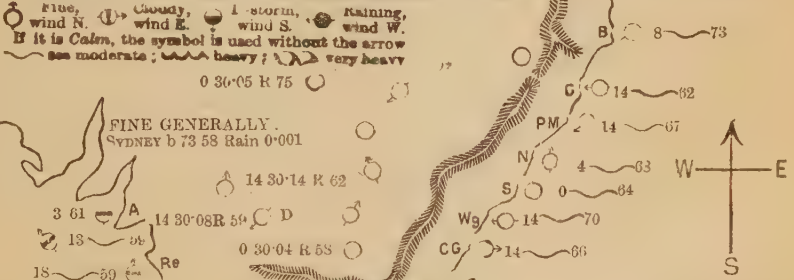


Blue, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
Sea moderate; heavy; very heavy

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
13-Light breze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
56-Whole ,,

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·1s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E



Barometers risen about ·20 on S E coast. For notes upon see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 6.

Western Australia: Perth, gloomy W. 18, sea smooth; Albany, cloudy, N.W., 18, barometer 29·82, temperature 68· South Australia reports cloudy weather, wind light from N., barometer steady, sea smooth; Daly Waters, fine N.W. 8 miles, barometer 30·080; Port Darwin, calm, cloudy, sea smooth, barometer 29·8.., temperature 86·. Victoria: Cloudy round coast, but no rain falling or measured, sea moderate, barometer rising, wind light from N.W. New South Wales: Fine, clear weather throughout, sea smooth, barometer rising, wind from N., fine and calm inland. Queensland: Fine, light S.W. winds, smooth sea; Cooktown, fine wind E.S.E. 28 miles, barometer 30·07, temperature 85· 3 p.m. Observations—Victoria: Melbourne, N., 23, cloudy, temperature 80·; Portland, N.W., 28, cloudy, smooth sea, temperature 67 0; Cape Otway, E., 13, fine, moderate sea, temperature 69·; Wilson's Promontory, N.E., 18, cloudy, moderate sea, temperature 79·. New South Wales; Wentworth, N.W., fine, temperature 82·; Deniliquin, fine, temperature 82·; Albury, calm, fine, temperature 71·; Goulburn, W., fine, temperature 72·; Forbes, calm, fine, temperature 72·; Eden, E.N.E., 14, fine, smooth sea, temperature 71·; Moruya, N.E., 20, fine, sea moderate, 75·; Cape George, N., 28, fine, smooth sea, temperature 75·; Sydney, E., 6, fine, smooth sea, temperature 77·; Newcastle, N.E., 8, fine, smooth sea; Port Macquarie, E., 14, fine, smooth sea, temperature 74·; Clarence River, fine, smooth sea, temperature 76·. State of Rivers:—Murrumbidgee: At Wagga, 3 feet 3 inches above summer level. Darling: At Wentworth, 2 feet 6 inches above summer level; at Pooncarie, 5 feet 3 inches above summer level; at Menindie, 3 feet above summer level; at Wilcannia, 1 foot 3 inches above summer level.

Stations.	w't	M'x	Mn	R'in
Casino..	b	82 51		0
Tenterfild	b	74 43		0
Moree....	b	94 61		0
Grafton..	b	81 51		0
Inverell..	b	74 49		0
Bourke ..	b	87 60		0
Narrabri	b	99 51		0
Armidale	b	72 42		0
Bendem'r	b	78 49		0
Gunned'h	b	88 39		0
Coonam'le	b	81 52		0
Tamworth	b	89 39		0
Coonab rn	b	82 42		0
P.Macqrie	b	75 56		0
Wilcannia	b	80 73		0
Murr'undi	b	76 51		0
Cassilis..	b	71 48		0
Mus'br'ok	b	82 49		0
Dubbo...	b	74 56		0
Menindie	b	73 50		0
Mudgee..	b	89 49		0
Maitland.	b	76 55		0
Hill End.	b	69 55		0
Newcastle	b	80 55		0
Orange..	b	61 52		0
Bathurst.	b	74 44		0
Condob'lin	b	68 56		..
8 71		k		
Forb's	b	82 58		0
MtVict'ria	b	61 52		0
Picton...	b	77 56		0
Carcoar..	b	65 49		0
Wentw'th	b	87 61		0
Young...	b	74 56		0
Wollgo'ng	b	78 58		0
Hay....	g	81 48		0
Moss Vale	b	70 52		0
Euston...	b	92 58		0
Goulburn	b	75 49		0
Wagga...	b	77 58		0
Cape Geo.	b	72 61		0
Queanb'n	b	80 50		0
Deniliq'in	b	78 53		0
Moruya..	b	73 56		0
Kiandra..	c	54 35		0
Albury..	c	72 53		0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 6 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S.; *Long.* 10h 4m 50·81s. E

Average Annual Rainfall for 22 years .. .. 51·461.
Average for 22 years from Jan. 1st to March 31 . 14·943.
Total Rainfall from Jan. 1st to April 6.... 10·447.
Barometers corrected to 32° Fah. Mean Sea Level

As 8 30·11 R 80 *Curve showing state of Barometer.*

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
sea moderate, heavy, very heavy

1430·15 R 78

FINE GENERALLY.
SYDNEY b 74 59 Rain 0·000

28 30·17 R 75

13 77 A 0 3 17 R67 D

0 30·14 R 65

18 68 R

13 69 M

2 61 P

13 65 CO

WP 23 62

Go 0 66

E 14 64

Ma 14 64

CG 28 67

Wg 14 78

S 4 63

N 6 70

PM 14 67

C 14 61

B 8 73

R --

Bod'lla	b	83	48	0
Cooma	b	80	49	0
Eden	b	67	56	0
Gabo	b	71	57	0

WEATHER.
e-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE.
Mt. 13-Li't brze
23-Mod. "
34-Fresh "
4-Strg gale
5-Whole "

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·198 a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W E S

Barometers risen about ·10 on E coast. For notes 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 7.

Western Australia: Albany, light rain falling, wind W.N.W., 5 miles, barometer 30.03, temperature 67°, rain 0·090, sea smooth; Perth, heavy dew on ground, S., 23, barometer 30·14, temperature 74°, rain 0·060, sea smooth. South Australia reports fine weather with light westerly and N.W. winds, barometers rising, sea smooth; Daly Waters, calm, cloudy, barometer 30·090; Port Darwin, calm, cloudy, barometer 29·960, temperature 78°, sea smooth. Victoria: Weather still cloudy round coast, but no rain reported; sea smooth, barometers rising, wind light from N.W. to N. New South Wales: Fine and clear all over colony, calm inland, smooth sea, rising barometers, and fresh northerly and westerly winds on coast. Queensland: Fine and clear sea at Cape Moreton, rough sea, wind light from S.E. at Cooktown and Rockhampton, and wind light from S.W. at Brisbane, barometers rising, no rain. 3 p.m. Observations.—Victoria: Melbourne, S., 13, fine, temperature 77°: Portland, W., 28, fine, sea smooth, temperature 69°; Cape Otway, W.N.W., 13, cloudy, sea rather rough, temperature 68°; Wilson's Promontory, W.S.W., 13, fine, sea smooth, temperature 68. New South Wales: Deniliquin, N.W., 14, fine, temperature 87°; Albury, calm, fine, temperature 77°; Goulburn, calm, fine, temperature 76°; Forbes, calm, fine, temperature 79°; Eden, N.E., 28, fine, sea smooth, temperature 78°; Moruya, N.E., 28, fine, sea moderate, temperature 78°; Cape George, calm, fine, sea smooth, temperature 75°; Sydney, E., 8, fine, sea smooth, temperature 74°; Newcastle, N.E., fine, sea smooth; Port Macquarie, N.E., 42, fine, sea moderate, temperature 75°; Clarence River, E.N.E., fine, sea moderate, temperature 77°. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level. Murray: At Albury, 2 feet 4 inches above summer level. Darling: At Wentworth, 2 feet 7 inches above summer level; at Pooncarie, 5 feet above summer level; at Menindie, 3 feet above summer level; at Wilcannia, 1 foot above summer level.

ations.	W't	M'x	Mn	R'in
sino.	o	87	54	0
nterfild	o	62	42	0
ree....	b	94	63	0
afton...	b	89	59	0
verell..	b	75	49	0
urke ..	b	88	59	0
rrabri	b	102	58	0
mdale	b	74	42	0
ndem'r	b	80	44	0
nned'h	b	94	44	0
onam'le	b	85	55	0
nworth	b	92	44	0
onab rn	b	86	48	0
lacqrie	b	77	57	0
lcannia	b	82	72	0
rr'undi	b	80	55	0
ssllis.	b	83	44	0
s'br'ok	b	87	51	0
bbo...	b	77	57	0
nindie	b	93	73	0
dgee	b	91	54	0
itland.	b	82	57	0
l End.	b	74	53	0
vcastle	b	80	54	0
nge..	b	70	49	0
hurst.	b	81	47	0
dob'ln	b	..	..	..
8 69)		E		
'Forb's	b	79	59	0
'ict'ria	b	72	57	
on...	b	80	53	0
oar..	b	70	52	0
itw'th	b	96	60	0
ng...	b	80	58	0
lgo'ng	b	84	56	0
....	b	92	52	0
s Vale	b	77	52	0
on...	b	96	62	0
burn	b	81	49	0
ga...	b	87	64	0
Geo.	b	81	61	0
ob'n	b	84	56	0
liq in	o	84	57	0
...a..	b	79	60	0
...a..	b	58	31	0
ry..	o	83	52	0·03

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 7 1881, with NOTES to 3 P.M

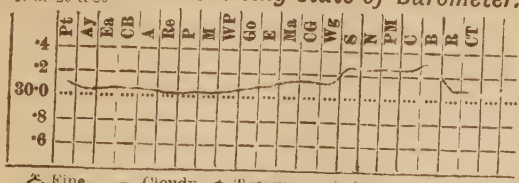
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 7.... 10·447.
Barometers corrected to 32° Fah. and Mean Sea Level

As 13 30·20 R 80

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30·16 R 76

FINE GENERALLY.
SYDNEY b 80 32 Rain 0·000

28 30·21 R 75

3 72 A 14 30·17 S 71 D

13 69

0 30·23 R 83

Re 8 67

23 79 M

25 66 P

CO 8 69

WP 13 76

Go 23 71

E

Ma 14 64

CG 14 63

Wg 0 73

S 6 68

N 6 69

PM 0 67

C 14 62

B 65

R 72

MI'S WIND SCALE.
13-Light breze
25-Mod. ,,
35-Fresh ,,
6-Strg gale
65-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′.0 E

W E S

Barometers risen about ·09 on E coast. For notes 3p.m see unde. shipping news.

Bod'lla	b	89	52	0	
Cooma	b	68	52	0	
Eden	b	..	.	0	
Gabo	g	83	64	0·02	

H.C. RUSSELL
GOVERNMENT ASTRONOMER

ations.	W't	M'X	Mn	R'in
sino..	b	86	54	0
nterfild	n	79	47	0
ree....	b	94	62	0
afton..	b	86	60	0
n nn's	b	87	56	0
rercli..	b	73	50	0
urke ..	b	94	66	0
rrabri	b	99	59	0
midale	b	76	50	0
ndem'r	b	83	47	0
nned'h	n	96	66	0
onam'le	b	87	59	0
mworth	b	95	47	0
onab rn	n	87	48	0
Macqrie	n	78	60	0
lcannia	b	84	76	0
rr'undi	b	80	57	0
ssilis..	b	81	52	0
is'br'ok	b	90	56	0
bbo...	b	82	60	0
nindie	b	95	65	0
udgee .	b	94	55	0
itland.	f	84	62	0
ll End.	b	76	54	0
wcastle	b	83	65	0
ange..	b	73	51	0
thurst.	b	85	48	..
13 69)	E			
Forb's	b	81	58	0
Vict'ria	b	76	56	0
ndob'lu	b	75	59	0
ton..	b	64	53	0
rcoar..	b	75	55	0
ntw'th	g	95	69	0
ung...	c	83	56	0
ollgo'ng	b	84	58	0
y....	g	91	52	0
ss Vale	c	80	56	0
ston...	b	100	67	0
ulburn	b	89	46	0
gga...	b	87	56	0
pe Geo.	b	81	66	0
eanb'n	b	96	57	0
nilq'in	b	93	64	0
ruya..	b	83	57	0
udra..	b	82	69	0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 8 1881, with NOTES to 3 P.M

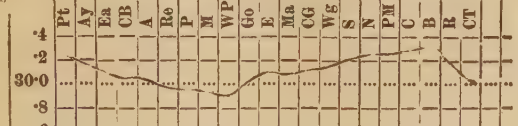
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 8.... 10·448.
Barometers corrected to 32° Fah. and Mean Sea Level

As 8 30·15 R 8

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30·13 F 80

FINE GENERALLY.
SYDNEY b77 63 Rain 0·00

28 30·15 F 82

3 73 A 14 30·13 F 72 D

8 Re

14 30·18 F 64

0 65

15 63 P 0 76 M

CO 0 62 WP 23 65

Wg 14 72

CG 14 70

Ma 14 65

E 14 68

Go 13 69

R 74

B 40 72

C 14 63

PM 14 68

N 4 70

S 0 69

Albury	b	88	52	0
Bodalla	b	89	52	0
Cooma	b	62	45	0
Eden	b	80	49	0
Gabo	b	78	62	0·02

M'S WIND SCALE.
13-Lt brze
23-Mod. "
34-Fresh "
55-Whole "
65-Strg gale

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W E S

Barometers fallen about ·15 on S.E coast. For notes 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 9.

Western Australia: Barometers rising; 30·28 at Perth, and 30·35 at Albany; wind S.E., no rain, weather fine. South Australia: Weather generally cloudy; barometers rising up to 30·32 at Adelaide, moderate sea on the coast; at Port Darwin, barometer is rising, weather fine, S.E., light; Daly Waters, 30·28, S.E. wind, and fine; telegrams too late for map. Victoria reports cloudy weather, wind fresh from S.W. and W.S.W. barometers rising, sea rather rough at Cape Otway; rain, Melbourne, 0·370; Otway, 0.050; Portland, 0·020; and Wilson's Promontory, 0·580. New South Wales: Fine up N. and inland, cloudy southwards from Cape St. George, and inland at Albury, Young, and Cooma, showery at Eden and Albury, raining at Gabo Island, sea smooth, falling barometers, and light northerly winds on coast. Queensland: Fine, with light winds, and steady barometers, sea moderate; fine with strong squalls, from E. at Cooktown; barometer, 30·01; rain, 0·240. 3 p.m. observations: Victoria, barometers steady; Cape Otway, W., 13, cloudy, sea moderate, temperature 62·; Portland, S.W., 34, cloudy, sea smooth, temperature 63.; Wilson's Promontory, W.S.W., 28, cloudy, sea moderate, temperature 59·; New South Wales: Wentworth, S., fine, temperature 67·0; Deniliquin, S.S.W., 20, fine, temperature 73·0; Albury, S.W., 10, cloudy, temperature 73·; Goulburn, W., fine, hot, temperature 79·0; Clarence River, E.N.E., 20, fine, sea smooth, temperature 76·0; Moruya, S.E., 20, cloudy, easterly swell setting in, temperature 70·0; Cape George, S.E., 10, fine, sea smooth, temperature 75·0; Sydney, 214, very warm, sea smooth, temperature 79·0; Newcastle, N.W., fine, sea smooth; Port Macquarie, N.E., 20, fine, sea smooth, temperature 75·0; Eden, S.W., 20, fine, little easterly sea, temperature 78·; clouds coming from S.W. all day, like a change, southerly, came on at night at Sydney. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 6 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 2 feet 1 inch above summer level; at Euston, summer level. Darling: At Wentworth, 2 feet 6 inches above summer level; at Menindie, 3 feet above summer level; at Wilcannia, 3 feet 9 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 9 1881, with NOTES to 3 P.M.

Sydney Observatory.

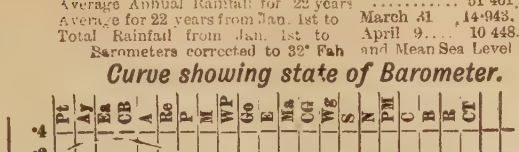
Lat. 33° 51′ 41″ S ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 ..... 14·943.
Total Rainfall from Jan. 1st to April 9..... 10·448.
Barometers corrected to 32° Fah and Mean Sea Level

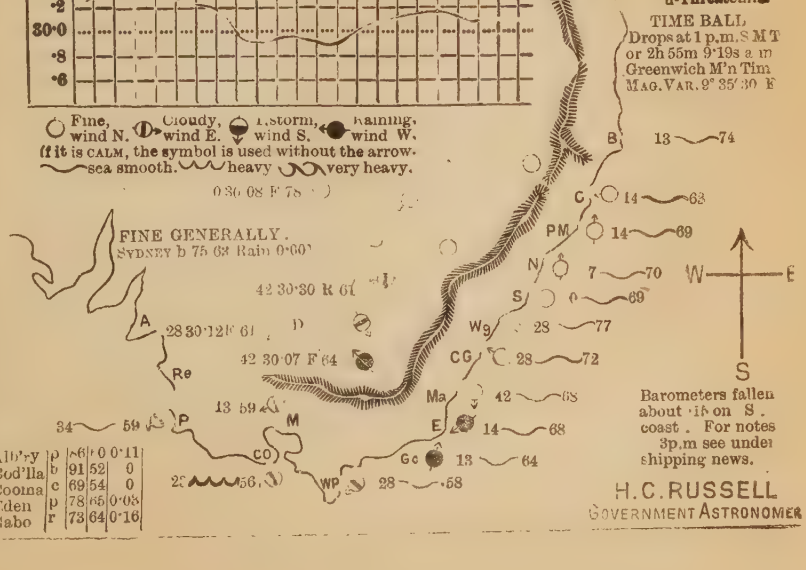
Stations	W'th	M'x	M'n	R'in
Casino..	b	86 54		0
Centerfild	b	75 46		0
Goree....	b	94 65		0
Grafton..	b	87 59		0
Tl'n nn's	b	83 51		0
Inverell..	b	79 54		0
Kourke ..	b	94 65		0
Larrabri	b	100 62		0
Armidale	b	77 51		0
Mendem'r	b	84 49		0
Munned'h	b	96 49		0
Moonam'le	b	89 59		0
Namworth	b	95 48		0
Moonab rn	b	86 49		0
N.Macqrie	b	76 63		0
Nilcannia	b	84 75		0
Nurr'undi	b	82 61		0
Nassulis..	b	85 54		0
Nas'br'ok	b	91 56		0
Oubbo...	b	81 61		0
Menindie	b	94 64		0
Mudgee .	b	95 54		0
Maitland.	b	82 59		0
Hill End.	b	78 55		0
Newcastle	b	82 63		0
Orange..	b	74 52		0
Bathurst.	b	86 48		..
		E.		
Forb's	b	83 56		0
Mt Vict'ria	b	72 59		0
Condob'ln	b	...		
Picton..	g	83 54		0
Carcoar.	b	75 54		0
Wentw'th	b	98 55		0
Young...	c	83 59		0
Wollgo'ng	b	84 65		0
Hay....	b	90 50		0
Moss Vale	o	81 60		0
Euston...	b	99 57		0
Goulburn	b	89 52		0
Wagga...	b	87 64		0
Cape Geo.	b	78 66		0
Queanb'n	b	97 55		0
Deniliq'in	b	92 56		0·02
Moruya..	b	97 64		0
Kiandra..	c	70 30		0

Alb'ry	p	86	60	0·11
Bod'lla	b	91	52	0
Cooma	c	69	54	0
Eden	p	78	65	0·03
Gabo	r	73	64	0·16

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Barometers fallen about ·18 on S. coast. For notes 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 11.

Western Australia: Perth, fine with light S.E. wind, barometer 30·11, temperature 68°; Albany, gloomy, with light N. wind, barometer 30·17, temperature 68°, sea smooth. South Australia: Cloudy in South of colony, with smooth sea, falling barometers, and light variable westerly and northerly winds, fine and calm inland at Alice Springs; Daly Waters, wind S.E. 8; Port Darwin, light S E. wind, barometer 29·910, temperature 85°. Victoria: Cloudy round coast, with moderate northerly winds, falling barometers, and smooth sea. Rain: Otway, 0·070; Portland, 0·080; Wilson's, 0·020. New South Wales: Fine inland, raining on coast N. of Twofold Bay, and between coast and mountains, smooth sea, with light variable winds, barometers rising up N. and falling S. half of colony. For rainfall see weather map. Queensland: Fine weather, with light N.E. winds and smooth sea. 3 p.m. Observations—Victoria: Barometer falling. Melbourne, W.N.W., 8, cloudy. Portland, no report; Cape Otway, N.W. 23, cloudy, moderate sea, temperature 65°; Wilson's Promontory, W.N.W. 23, cloudy, squally, sea smooth, temperature 61°. New South Wales: Wentworth, S.W, fine, temperature 64°; Albury, S.W., fine, temperature 63°; Forbes, calm, cloudy, temperature 76°; Moruya, N.E. 28, fine, moderate, temperature 67°; Sydney, calm, cloudy, raining, smooth, temperature 62; Port Macquarie, S. 42, dull moderate, temperature 73; Deniliquin, S.W. 14, fine, temperature 67; Goulburn, calm, dull, temperature 64; Eden, N.E. 14, fine, smooth, temperature 65; Cape George, S., 14, fine, moderate, temperature 64; Newcastle, S., dull, showery, moderate; Clarence River, S.E. 14, fine, moderate, temperature, 78. From 9 a.m. Sunday to 9 a.m. Monday 2·298 inches rain fell, which, with 0·047 on Sunday morning, makes 2·345 the amount given in the map up to 9 p.m. on Monday 0·277 rain fell, so that the total fall is 2·622. Very heavy showers fell during Sunday night and Monday morning, the heaviest at 7 a.m., when for 6 minutes the rain fell at the rate of 1 inch per hour. There has been but little change in the barometer during the rain, and the heaviest fall of rain has been at Sydney; only few other stations (see map) reporting any rain; wind between S. and S.F. all night. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 6 inches above summer level; at Hay, 2 feet above summer level. Murray: At Albury, 1 foot 9 inches above summer level. Darling: At Wentworth, 2 feet 5 inches above summer level; at Pooncarie, 4 feet 6 inches above summer level; at Menindie, 3 feet above summer level; at Wilcannia, 1 foot 6 inches above summer level.

ations.	w't	M'x	Mn	R'in
ino..	o	84	54	0
iterfild	c	84	50	0
ee....	b	91	55	0
ftón..	g	83	51	0·31
Inn's	p	83	57	0·11
ereh..	b	80	54	0
rke ..	b	78	54	0
rabri	b	99	47	0
nidale	g	72	50	1·00
idem'r	g	85	47	0
med'h	..	..	..	0
nam'le	c	77	50	0
nworth	b	92	51	0
nab rn	n	83	49	0
acqrie	g	75	63	1·15
cannia	b	80	68	0
r'undi	g	80	56	0
nlis..	g	87	56	0
'br'ok	r	93	56	0
bo...	g	91	55	0
hindie	b	95	45	0
lgee ..	g	94	58	0
tland.	r	86	62	0
End.	b	77	58	0
'castle	p	79	59	0·21
nge..	b	68	51	0
hurst.	g	84	51	0·39
13 ·66		E		
(Forb's.	b	81	53	0
ict'ria	r	50	45	0·35
Hob'ln	..	..	..	0
on..	d	68	55	0·43
oar..	b	72	51	0
tw'th	b	67	43	0
ng...	c	74	53	0
go'ng	c	64	35	0·40
....	g	72	30	0
Vale	c	65	49	0·37
on...	b	77	37	0
burn	g	65	49	0
ga...	b	79	47	0
Geo.	c	72	55	0
mb'n	c	86	45	0
liq'in	b	70	40	0
tya..	g	70	54	0·8
dra..	b	53	39	0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 1[illegible] 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51' [illegible] Long. 151° [illegible] E.

Average Annual Rainfall for 22 years ..... 51·91
Average for 22 years from Jan. 1st to March 31 ... 11·94
Total Rainfall from Jan. 1st to April 11... 12·793.
Barometers corrected to 32° Fah and Mean Sea Level

0 30·21 F 78 **Curve showing state of Barometer.**

	Pt	Ay	Ea	CB	A	Re	P	M	WP	Go	E	Ma	CG	Wg	S	N	PM	C	B	R	CT
·4																					
·2																					
30·0																					
·8																					
·6																					

Fine, wind N. Cloudy, wind E. Storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30·09 R 66

RAINING ON E COAST
SYDNEY c 65 58 Rain 2·345

2: 30·30 S 53

0 30 13 R 53

3 54

Alb'ry	b	76	41	0
B'd'la	g	35	41	0
Cooma	b	54	37	0
Eden	b	67	52	0
Gabo	b	64	52	0

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
k-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Tim
MAG. VAR. 9° 35' 30" E

Barometers risen about ·20 on S.E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—APRIL 12.

South Australia: Fine weather, broken clouds on south coast, with smooth sea; slowly falling barometers, and light northerly wind, no rain; Port Darwin, cloudy, light S.E. wind, sea smooth, barometer 29·80, temperature 85°; Daly Waters, calm, fine, barometer 30·04. Victoria: Still cloudy all round coast, barometers falling, sea rough, wind fresh from N. and N.W.; very high sea at Cape Otway, no rain. New South Wales: Weather very fine all over the colony; smooth sea, falling barometers, light variable northerly and southerly winds on coast; calm inland, light rains yesterday. See weather map. Queensland: Fine, with light S.W. wind, rising barometer, and smooth sea; Cooktown, fine, light E. wind, barometer 30·02, temperature 81°. 3 p.m. Observations.—Victoria: Melbourne, barometers fallen 0·15; N., 18, fine, temperature 68°; Portland, N.W., 48, squally, threatening rain, rough sea, temperature 67°; Cape Otway, N., 18, cloudy, high sea, temperature 71°; Wilson's Promontory, N.N.E., 23, cloudy, smooth sea, temperature 61°. New South Wales: Deniliquin, N., 14, fine, temperature 69°; Albury, W., 10, fine, temperature 63.; Goulburn, N.W., fine, temperature 67°; Forbes, calm, fine, temperature 81°; Eden, N.E., 14, fine, little easterly sea, temperature 67°; Moruya, N.E., 20, fine, sea moderate, temperature 71°; Cape George, N.E., 20, fine, sea moderate, temperature 69°; Sydney, N.E., 14, fine, clear, sea smooth, temperature 67°; Newcastle, E., fine, sea smooth; Port Macquarie, S.E., 14, fine, sea smooth, temperature 74°; Clarence River, S.E., fine, sea smooth, temperature 76°. State of Rivers: Murrumbidgee: At Wagga, 1 foot 11 inches above summer level; at Hay, 1 foot above summer level; at Balranald, summer level. Murray: At Albury, 1 foot 8 inches above summer level; at Euston, summer level. Darling: At Wentworth, 2 feet 4 inches above summer level; at Pooncarie, 4 feet 3 inches above summer level; at Menindie, 3 feet above summer level; at Wilcannia, 1 foot 8 inches above summer level.

ations.	w'th	m'x	mn	r'in
ino.	b	89	60	0
terfild	b	78	39	0
ee....	b	82	53	0
fton..	b	77	52	0 06
n Inn's	b	75	33	0
erell..	b	80	43	0
rke...	b	78	53	0
ebri	b	86	45	0
uidale	b	80	49	0
dem'r	b	76	38	0
ned'b	b	90	42	0
nam'le	b	76	49	0
nworth	b	92	40	0
nab ra	b	81	40	0
flacqrie	b	73	59	0
cannia	b	70	61	0
er'undi	b	69	58	0
sallis..	b	73	55	0
s'br'ok	b	68	52	0
obo...	b	76	54	0
nindie	b	75	46	0
dgee..	g	82	52	0
tland.	b	68	56	0·08
End.	b	74	47	0
vcastle	b	78	56	0·12
nge..	b	66	48	0
thurst.	g	66	45	0
13 68				
Ford's	b	84	56	0
fict'ria	b	56	44	0·03
dob'ln	..	..	..	..
on..	b	70	47	0·01
coar..	g	65	48	0
ntw'th	b	74	44	0
ung...	b	70	46	0
ligo'ng	b	79	57	0
7...	b	70	50	0
s Vale	b	65	46	0
ton...	b	73	41	0
dburn	b	66	38	0
gga...	b	69	41	0
e Geo.	b	68	54	0
anb'n	b	63	42	0
dlip'in	b	68	41	0
uya..	b	70	51	0
adra...	b	69	38	0

WEATHER MAP.

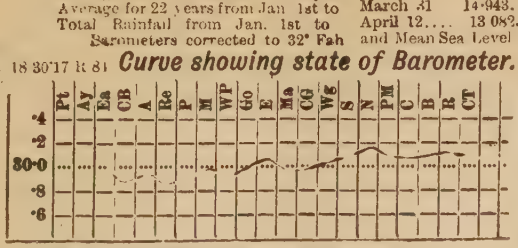
COMPILED from TELEGRAMS for 9 A.M., APRIL 12 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S.; Long. 10h. 4m 50·81s. E.

Average Annual Rainfall for 22 years ..... 51·461
Average for 22 years from Jan 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 12.... 13 082.
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.

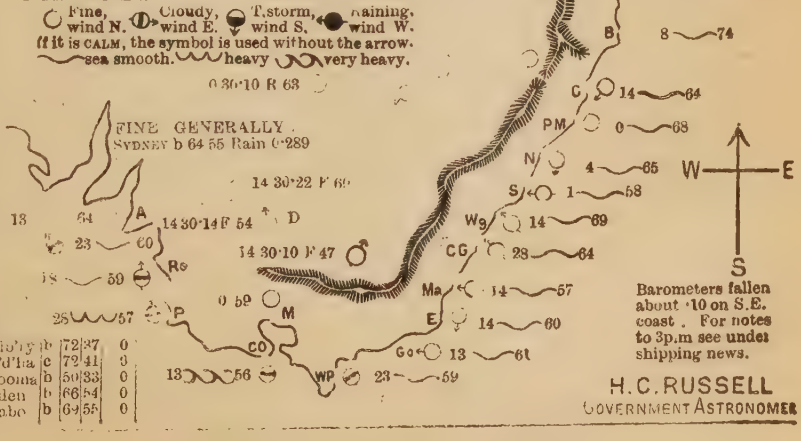


Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

WIND SCALE.
1-Light breze
2-Mod. ,,
3-Fresh ,,
4-Strg gale
5-Whole ,,

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
o-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL.
Drops at 1 p.m. S M T or 2h 55m 9·19s a m Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E



Mt'ly	b	72	37	0
B'd'l'a	c	72	41	3
Cooma	b	50	33	0
Eden	b	66	54	0
Jabo	b	69	55	0

Barometers fallen about ·10 on S.E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

Stations	W'th	M'x	Mn	R'in
ino..	c	87	60	0
terfild	b	78	46	0
ee....	b	86	57	0
fton...	b	76	50	0
n Inn's	c	77	39	0
erell..	b	73	43	0
rke ..	b	79	54	0
rraori	b	91	40	0
ndale	b	77	49	0
ulcra'r	b	76	34	0
nned'h	b	88	[illegible]	0
onam'le	b	76	4[illegible]	0
mworth	b	86	35	0
nab rn	b	78	35	0
Macqrie	b	73	59	0
llcannia	b	72	67	0
rr'undi	b	75	51	0
ssilis..	b	72	44	0
is'br'ok	b	78	45	0
bbo...	b	77	44	0
emndie	b	75	57	0
ndgee ..	b	85	43	0
itland.	b	71	58	[illegible]
h End.	b	70	40	0
wcastle	b	77	55	0
ange..	b	65	39	[illegible]
thurst.	b	73	38	0
18 61		E		
Forl's	b	80	53	0
tVict'ria	b	63	49	0
ndob'ln	..	..	..	..
cton..	b	..	..	0
arcoar..	b	65	44	0
entw'th	c	80	55	0
oung...	b	71	44	0
Tollgo'ng	b	78	53	0
ay....	b	78	43	0
oss Vale	b	66	45	0
nston...	b	83	53	0
oulburn	b	75	35	0
'agga...	b	67	41	0
ape Geo.	b	71	43	0
ueanb'n	b	83	64	0
eniliq'n	g	72	52	0
oruya..	b	79	50	0
iandra..	b	70	32	0

WEATHER MAP.

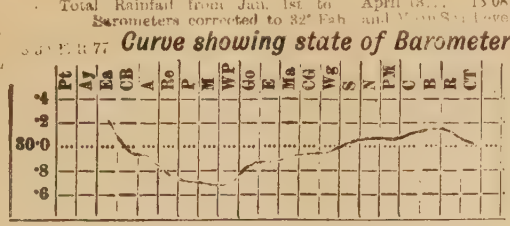
COMPILED from TELEGRAMS for 9 A.M., APRIL 13 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 47″ S ; Long. 10h 4m 50·8s E.

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·944.
Total Rainfall from Jan. 1st to April 13... 13·082.
Barometers corrected to 32° Fah. and Mean Sea Level.

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

CLOUDY ON S. COAST.
SYDNEY b 72 57 Rain ·005

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Light'ning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Th'nder
u-Threatening

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenw'ch M'n Tim
MAG. VAR. 9° 35′·0 E

Barometers fallen about ·15 on S.E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—APRIL 14.

Western Australia: Perth, E.NE., 13, fine, barometer 30·19, temperature 81°; Albany, wind N.E., 3 miles, fine, barometer 30·040, temperature 61°, sea smooth. **South Australia:** Weather cloudy, wind fresh from south, barometers rising, sea rough; rain, Adelaide 0·290, and Cape Borda 0·100; Port Darwin, cloudy, light S.E. wind, smooth sea, barometer 29·910, temperature 84°; Daly Water, light S.E. wind and fine, barometer 30·060; Catherine, calm and fine; Powell's Creek, fine, wind strong from S.E.; Tennant's Creek, fine and clear, wind S.E. Victoria: Cloudy and raining all round coast, wind fresh from west, barometers rising, sea rough, squally, with hail and heavy rain at Wilson's Promontory; rain, Melbourne 0·060, Otway 0·370, and Wilson's Promontory 1·070. New South Wales: Fine weather inland and up N., cloudy and raining at Eden and Gabo Island, sea moderate, barometers falling all down coast, wind fresh from W. and N.W. (for rainfall, &c., see weather map). Queensland: Reports fine clear weather, with fresh S.W. winds, barometers falling; Cooktown, fine, fresh S.E. wind, barometer 29.98, temperature 83°. 3 p.m. Observations.—Victoria: Barometers rising; Melbourne, W.S.W., 23, raining, squally, temperature 54°; Cape Otway, S.W., 23, showery, squally, high sea, temperature 51°; Portland, S.W., 40, raining, rough sea, temperature 55°; Wilson's Promontory, N.E., 28, showery and squally with hail, moderate sea, temperature 51°. New South Wales: Wentworth, W., fine, temperature 60°; Deniliquin, S.W., fine, temperature 63°; Albury, W., cloudy, temperature 60°; Goulburn, W., fine, temperature 62°; Forbes, calm, fine, temperature 76.; Eden, S.W., 28, fine, smooth sea, temperature 62°; Moruya, N.W., 12, fine, moderate sea, temperature 66°; Cape George, W.S.W., 56, fine, smooth sea, temperature 65°; Sydney, W., 18, fine, smooth sea, temperature 68°; Newcastle, N.W., fine, smooth sea; Port Macquarie, N.N.E., 42, cloudy, smooth sea, temperature 78. A considerable gradient exists from Adelaide, Wilson's Promontory. Barometers are rising steadily to S.W., with moderate W. to S.W. winds generally; light rains in Victoria. Barometer rising fast in Sydney, showing that the danger of strong S.W. gales here is past. State of River: Murrumbidgee: At Wagga, 1 feet 6 inches above summer level; at Hay, 2 feet above summer level. Murray: At Albury, 1 feet 9 inches above summer level. Darling: At Wentworth, 2 feet 3 inches above summer level; at Menindie, 2 feet 9 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 14 1891, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 14.... 13·093.
Barometers corrected to 32° Fah and Mean Sea Level

Bow...	b	79	61		0	
ne...	c	89	61		0	
ford	g	79	56		0	
ce ...	g	89	65		0	
foo...	g	85	69		0	
Inn's	g	79	51		0·28	
ereb...	b	79	58		0	
rke ...	b	85	60		0	
rabri	g	85	64		0	
ndale	g	78	40		0·04	
ndeur	b	79	53		0	
med'h	g	92	50		0	
nam'le	c	82	55		0	
nworth	b	90	50		0	
nab rnl	b	81	48		0	01
lacquie	g	76	67		0	
cannia		..	..		0	
r'undi	g	77	61		0	
sllis.	c	84	56		0	
s'br'ok	b	85	55		0	
bbo...	b	76	48		0	
uindie	b	75	45		0	
dgee ...	g	80	56		0	
itland.	b	76	59		0	
l End.	g	68	41		0	
wcastle	b	80	63		0	
nge..	g	66	47		0	
thurst.	b	74	44		0	
0 65						
Forb's	b	74	49		0	
Vict'ria	c	65	43		0·02	
ndob'lu	..		..		..	
ton..	o	75	54		0	
rcoar..	g	66	51		0·13	
ntw'th	b	96	43		0	
ung...	c	74	51		0	
ilgo'ng	c	79	62		0	
y....	b	77	..		0	
ss Vale	b	69	50		0·05	
ston...	b	74	41		0	
ulburn	b	80	49		0	
gga...	b	78	47		0·10	
pe Geo.	c	77	61		0	
eamb'n	c	87	47		0	
nilliq'in	b	74	41		0	
ruya..	p	86	57		0.10	
ndra..	s	49	15		0·40	
Alb'ry	b	72	43		0·34	
B'd'ba	b	85	49		0	
Cooma	b	48	33		0·94	
Eden	b	72	55		0 13	
Gabo	r	76	52		0·24	

As S 30·15 R 61

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

RAIN ON S. COAST.
SYDNEY b 75·60 Rain 0·01

14 30·13 R 64

42 30·29 R 52

14 30·18 R 46

14 30·02 R 49

13 49

WEATHER.
o-Blue sky.
c-Scattered clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
o-Passing show'rs
s-Squally
r-Rain
t-Thunder
n-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·198 s m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W — E
S

Barometers fallen about ·20 on Fa coast. For notes to 3p.m see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—APRIL 16.

Victoria: Gloomy weather round coast, with rising barometers, light S.E. and S.S.W. winds, and smooth sea: showery at Melbourne; rain, 0·230; ditto at Portland, 0·190; Cape Otway, 0·500. **New South Wales**: Fine weather prevails all over colony, on the coast the sea is smooth, with fresh, cool, westerly breeze, and rising barometers. (For rainfalls at Kiandra and Gabo see map.) **Queensland**: Cooktown, gloomy; wind light, from S.E.; rain, 0·220. 3 p.m. Observations.—Victoria, barometers steady; Cape Otway, S.E. 13, fine moderate sea, temperature 59°; New South Wales: Wentworth, S., 10, fine, temperature 61°; Moruya, E., 20, fine, sea moderate, temperature 67°; Sydney, E., 14, fine, sea smooth, temperature 64°; Port Macquarie, S., 20, fine, sea smooth, temperature 66°; Goulburn, W., fine, temperature 62°; Eden, S.S.W., 14, fine, sea smooth, temperature 67°; Cape George, E.S.E., 14, fine, sea smooth, temperature 67°; Newcastle, E., fine, sea smooth; Clarence River, S., fine, sea smooth, temperature 71°. State of rivers:—Murrumbidgee: At Hay, 2 inches above summer level; at Balranald, summer level. Murray: At Albury, 1 foot 9 inches above summer level; at Euston, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 16 1881, with NOTES to 3 P.M

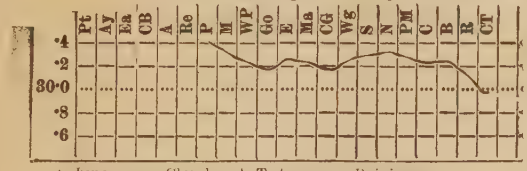
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 16.... 13·093.
Barometers corrected to 32° Fah. and Mean Sea Level

As

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30·35 R 58

RAIN ON S. COAST.
SYDNEY b 65 52 Rain 0·00

28 30·55 R 56

14 30·40 R 55

0 30·31 R 53

8 55

Stations.	W'th	M'x	Mn	R'in
Casino..	b	80	50	0
Tenterfild	b	62	32	0
Moree....	b	78	45	0
Grafton..	b	82	47	0
Gl'n Inn's	n	72	28	0
Inverell..	.	..	..	..
Bourke ..	b	79	55	0
Narrabri	b	72	42	0
Armidale	b	61	40	0
Bendem'r	.	..	..	..
Gunned'h	.	..	.	.
Coonam'le	b	67	41	0
Tamworth	.	..	..	.
Coonab'rn	b	66	37	0
P.Macqrie	b	68	46	0
Wilcannia	b	67	41	0
Murr'undi	.	..	.	..
Cassilis.	b	64	55	0
M'is'br'ok	b	70	39	0
Dubbo...	b	67	44	0
Menindie	b	70	49	0
Mudgee	b	75	34	0
Maitland..	b	75	43	
Hill End.	.	..	.	..
Newcastle	b	74	45	0
Orange..	b	54	34	0
Bathurst.	b	58	30	0
		R.		
Forb's	b	76	47	0
M'Vict'ria	b	52	35	0
Condob'lin	.	..	..	..
Picton..	b	64	40	0
Carcoar..	.	..	..	..
Wentw'th	b	70	56	0
Young...	b	63	31	0
Wollgo'ng	b	..	.	0
Hay....	.	..	..	..
Moss Vale	b	56	37	0
Euston...	b	78	44	0
Albury	b	56	34	0
Wagga...	b	60	34	0
Cape Geo.	b	67	47	0
Queanb'n	b	66	36	0
Deniliq'in	g	64	36	0
Moruya..	b	71	43	0
Eliandra..	f	41	19	0.73

Alb'ry	c	60	35	0·05
B'd'lla	b	78	44	0
Cooma	b	52	36	0
Eden	b	62	46	0
Sydn	n	66	57	0·99

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

M'S WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W E S

Barometers risen about ·40 on E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—APRIL 18.

New South Wales: Cloudy generally on the east side of the range; showery at Clarence Heads, Newcastle, Sydney, and raining at Mount Victoria at 9 a.m.: 0.17 rain fell at Casino, 0.11 at Grafton, 0.85 at Clarence Heads, 0.09 at Port Macquarie, 0.18 at West Maitland, 0.11 at Newcastle, 0 28 at Mount Victoria, 0.05 at Goulburn, and at Sydney 1 561 inches fell since the night of 16th; smooth sea on east coast. Queensland: Gloomy at Cooktown, with strong S.E. wind blowing, and 0.02 of rain. 3 p.m. Observations.—New South Wales: Eden, E., 14, fine, little east sea, temperature 67°; Moruya, S.E., 20, cloudy, sea moderate, temperature 65°; Sydney, S.S.W., 14, showery, barometer falling slowly, temperature 64°. It will be seen on reference to the weather map that at 9 a.m. barometers in this colony were standing at about 30·50, a very unusual height. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 6 inches above summer level; at Hay, 1 foot above summer level; at Balranald, 2 feet 5 inches above summer level. Murray: At Albury, 2 feet above summer level. Darling: At Wentworth, 1 foot 11 inches above summer level; at Pooncarie, 3 feet 6 inches above summer level; at Menindie, 2 feet 4 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 18 1884, with NOTES to 3 P.M.

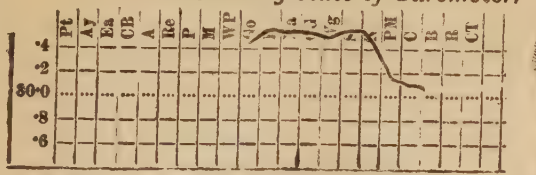
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 18.... 14·854.
Barometers corrected to 32° Fah and Mean Sea Level.

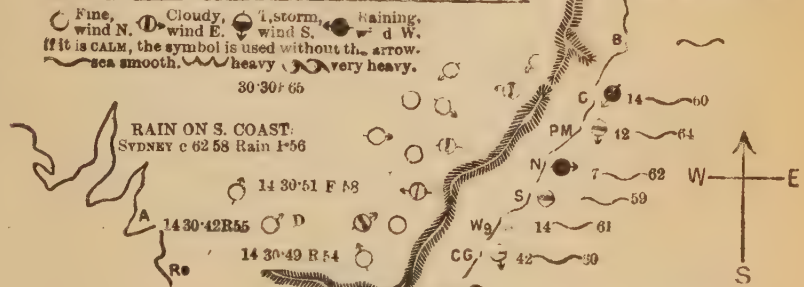
Stations.	W'T	W'X	M'T	R'in
Casino.	c	74	56	0·17
Centerfild	g	64	46	0
Moree....	b	87	61	0
Grafton..	b	78	61	0·11
Gl'n Inn's	.	..	..	..
Inverell..	b	71	45	0
Bourke ..	.	76	57	0
Narrabri	u	76	46	0
Armidale	g	63	41	0
Bendem'r	b	85	48	..
Gunned'h		..	..	
Coonam'le	.	..	..	0
Camworth	b	75	36	.
Coonab rn	b	73	40	0
C.Macqrie	u	71	51	·09
Wilcannia	b	68	62	0
Murr'undi	b	67	40	..
Hassllis..	u	64	56	0
Has'br'ok	.	..	..	0
Dubbo...	b	73	45	0
Menindie	b	73	48	0
Cudgee .	u	..	..	0
Maitland.	g	63	46	0·18
Hill End.	u	65	49	..
Newcastle	p	74	55	0·11
Orange..	c	..	..	0
Bathurst.	.	..	..	0
	E			
Forb's	b	79	49	0
Vict'ria	r	..	..	0·18
Condob'ln	.	..	..	..
Picton..	c	65	49	0
Parcoar..	c	63	40	..
Wentw'th	b	71	44	0
Young...	b	66	44	0
Wollgo'ng	b	71	56	0
Bay....	.	..	..	..
Moss Vale	c	56	47	0
Huston...	b	69	42	0
Goulburn	b	63	42	0·05
Yagga...	b	69	44	0
Cape Geo.	c	66	57	0
Queanb'n	b	78	49	0
Deniliq'in	b	73	37	0
Goruya..	g	68	56	0
Handra..	.	..	..	0
Alb'ry	b	71	38	0
B'd'lla	c	78	49	0
Cooma	c	49	44	0
Eden	b	68	51	0
Gabo	b	69	53	0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

30·30 F 65



WEATHER.
a Blue sky.
c Scattered clouds
d Drizzling rain
f Fog
g Gloomy, dull
h Hail
l Lightning
m Misty
n Frost
o Overcast
p Passing show'rs
q Squally
r Rain
s Thunder
t Threatening

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m.
Greenwich M'n Tim
MAG. VAR. 9° 0′ E

Barometers risen about ·40 on E coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS. August 10.

In Australia: Perth, cloudy, wind E., [illegible] barometer 30.25, temperature 83; Albany, cloudy, wind E., [illegible] barometer 30.25, temperature 69, sea smooth. South [illegible]: Weather fine at [illegible] of [illegible] time, broken clouds [illegible] and near Robe; [illegible] sea smooth; coast [illegible] wind light from N.E., and barometer falling; Port Wakefield, S.E., fine; Port Darwin, 12, cloudy. Victoria: [illegible] other reports. Portland, [illegible] weather; very smooth sea off [illegible] coast; dead [illegible]; [illegible] wind light and calm, no [illegible]. New South Wales: Cloudy on [illegible] of Sydney; fine [illegible] and warm; [illegible] barometer still [illegible] falling; wind light from S. and S.W. (see [illegible]). Queensland: Brisbane, [illegible] S.W. wind, smooth sea, [illegible] showers, [illegible] S.E., warm, rain 1·20 inch, Rockhampton, 1·60 inch, 3 p.m. Observations: New [illegible]: Wentworth, S.W., fine, temperature 70; Albury, [illegible] temperature 58°; Robe, calm, fine, temperature 64°; [illegible] S.E., fine, sea smooth, temperature 66°; Sydney, S.E., [illegible], sea smooth, temperature [illegible]; Port Macquarie, S., [illegible], sea smooth, temperature 60°; Deniliquin, calm, fine, [illegible] 62°; Goulburn, S., fine, temperature 62°; [illegible] S.E., 14, fine, sea smooth, temperature 66°; Newcastle, [illegible], calm, sea smooth; Clarence River, S., 13, cloudy, sea [illegible], temperature [illegible]. State of Rivers.—Murrumbidgee, [illegible] 1 foot 3 inches above summer level; at Gundagai, [illegible] above summer level. Murray: At Albury, 2 feet above summer level; at Echuca, [illegible] feet above summer level. Darling: At Wentworth, [illegible] feet 10 inches above summer level; at Pooncarie, 3 feet [illegible] above summer level; at Menindie, 2 feet 3 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 19 1881, with NOTES to 8 P.M.

Sydney Observatory.

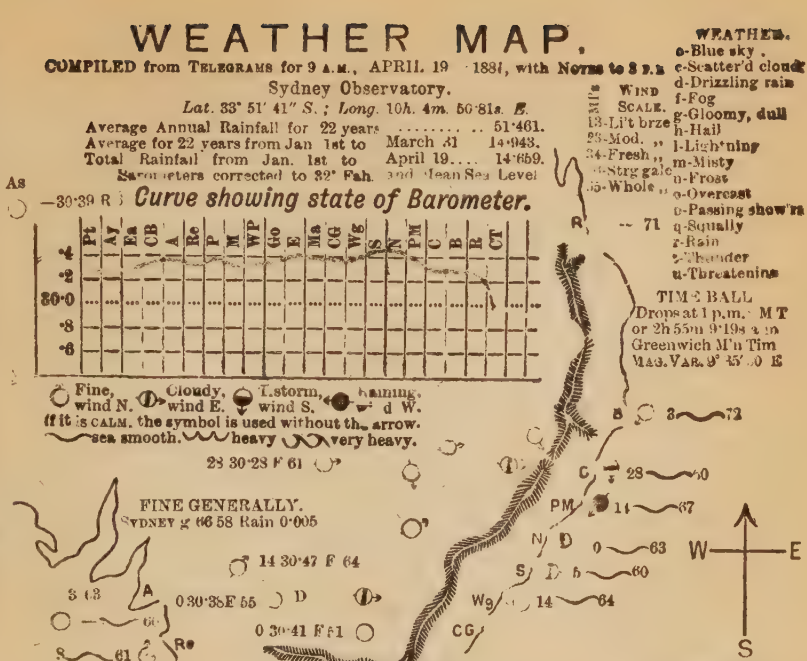
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 19.... 14·659.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'T	M'X	M.S	R'in
Casino.	b	74 55		0
Centerfild	g	63 48		0
Coree....	b	80 57		0
Grafton..	b	73 60		0
H'n Inn's	c	67 46		0
Inverell..	b	71 40	0	01
Kourke ..	b	79 54		0
Narrabri	n	77 54		0
Armidale	d	70 32		0
Bendem'r	b	68 38		0
Bunned'h	b	84 26		0
Coonam'le	b	76 50		0
Camworth	b	80 35		0
Coonab rn	b	73 38		0
C.Macqrie	p	70 59		0
Cilcannia	b	69 62		0
Cutr'undi	b	70 50		0
Cassilis..	g	62 54		0
Dus'br'ok	n	72 53		0
Dubbo...	b	71 51		0
Glenindie	b	75 50		0
Gudgee .	b	71 43		0
Haitland.	c	66 56	0	15
Hill End.	b	67 48		0
Newcastle	g	69 57		0
Orange..	b	69 41		0
Bathurst.	b	63 42		0
S 8 68		E		
Port's	b	81 49		0
Ad Vict'ria	f	58 41	0	05
Bondob'lin	.	..	..	..
Incton..	c	67 45		0
Carcoar..	b	61 41		0
Wentw'th	b	83 58		0
Young...	b	69 45		0
Wollgo'ng	b	69 55		0
Bay....	b	78 38		0
Moss Vale	b	56 36		0
Euston...	b	83 49		0
Goulburn	f	64 38		0
Wagga...	b	69 45		0
Cape Geo.	.	..	..	.
Queanb'n	b	88 45		0
Deniliq'in	b	71 44		0
Moruya..	.	..		..
Kiandra..	b	61 44		
Alb'ry	b	73 40		0
B'd'La	.	..		..
Cooma	f	42 27		0
Eden	b	68 49		0
Gabo	b	75 53		0

WEATHER.
o-Blue sky.
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Light'ning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale
55-Whole ,,



Barometers fallen about ·10 on E coast. For notes to 3p.m see under shipping news.

H.C.RUSSELL
GOVERNMENT ASTRONOMER

tions.	wt	M'x	M.M	R'in
ino.	c	76 51		0·05
terfild	p	67 44		0
ee....	b	90 52		0
fton..	b	73 53		0·20
n Inn's	b	68 47		0
erell..	b	73 42		0
rke ..	c	86 56		0
rabri	"	80 53		0
nidale	b	70 34		0
ndem'r	b	74 43		0
lined'h	b	85 41		0
nam'le	c	79 47		0
nworth	b	76 38		0
nab rn	b	85 41		0
facqrie	c	6[illegible] 59		0·07
cannia	b	72 62		0
r'undi	b	69 [illegible]7		0
nlis.	c	72 53		0
s'br'ok	g	76 48		0
bo...	b	73 53		0
nnd.e	b	79 51		0
dgee .	b	82 39		0
tland.	b	72 52		0
l End.	.	..	..	..
wcastle	b	73 54		0
nge...	b	61 39		0
hurst.	f	70 36		0
.8 06		E		
Forb's	b	84 53		0
Vict'ria	b	55 44		0
ndob'la	b	62 53		0
ton..	b	71 40		0
rcoar..	b	6[illegible] 57		0
ntw'th	b	83 48		0
ung...	b	69 44		0
'lgo'ng	b	71 52		0
y....	b	79 49		0
ss Vale	f	65 43		0
nton...	c	82 46		0
alburn	b	70 35		0
gga...	b	69 41		0
be Geo.	b	71 31		0
nanb'n	b	96 43		0
nilig'in	b	77 44		0
ruya..	b	70 42		0
ndra..	b	70 20		0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 20 1881, with Notes to 3 P.M.

Sydney Observatory.

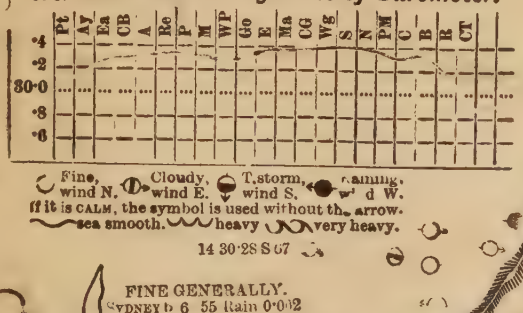
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

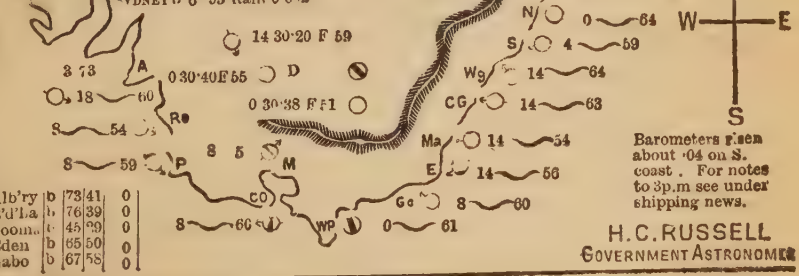
Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 20.... 14·567.
Barometers corrected to 32° Fah and Mean Sea Level

WEATHER.
o-Blue sky.
e-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
13-Li't brze
23-Mod. "
34-Fresh "
55-Strg gale
75-Whole "

Curve showing state of Barometer.





TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′·30 E

Barometers risen about ·04 on S. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

tions.	W'th	M'x	M.	R'in
no..	c	82 54		0·04
terfild	.	..	..	..
ee....	b	93 65		0
ton..	g	79 59		0
Inn's	.	..	..	..
rell..	g	74 49		0·05
rke ..	b	83 57		0
rabri	c	81 56		0
idale	b	62 41		0
dem'r	b	76 46		0
ned'h	b	89 43		0
nam'le	b	79 49		0
worth	c	86 47		0
nab rn	b	79 39		0
ncqrie	b	72 59		0·03
annia	b	73 62		0
r'undi	f	70 49		0
dlis..	g	74 43		0
br'ok	d	76 55		0
oo...	b	73 48		0
ndie	b	82 53		0
gee..	b	82 48		0
land.	c	71 53		0
End.	b	65 44		..
castle	b	74 55		0
ge..	b	62 39		0
urst.	f	73 38		0
18 68		E		
'orb's	b	76 48		0
ct'ria	b	60 46		0
ob'ln	b	72 61		0
a..	f	70 44		0
bar..	b	64 43		0
w'th	b	86 49		0
g...	b	73 45		0
go'ng	b	71 52		0
...	b	81 31		0
Vale	f	65 46		0
n...	b	87 42		0
burn	g	76 46		0
a...	b	70 43		0
Geo.	b	71 54		0
nb'n	b	76 43		0
iq'in	b	56 27		0
va..	b	71 51		0
ra..	b	56 27		0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 21 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 21.... 14 572.
Barometers corrected to 32° Fah. and Mean Sea Level.

Curve showing state of Barometer.

30·29 S 68

	Pt	Ay	Ea	CB	A	Re	P	M	WP	Go	E	Ma	CG	Wg	S	N	PM	C	B	R	CT
·4																					
·2																					
30·0																					
·8																					
·6																					

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30·29 R 68

FINE GENERALLY.
SYDNEY c 69 57 Rain 0·005

14 30·50 R 63

3 70 A 0 30·38 F 56 D

8 60 Re 14 30·39 R 55

S 58 3 55 M

0 56 P CO

3 63 WP 3 58

Alb'ry	b	74	40	0
B'd'lla	b	79	42	0
Cooma	b	49	32	0
Eden	b	66	51	0
Gabo	b	69	54	0

As

R

B 65 69

C 62

PM 11 64

N 3 67

S 6 60

Wg 14 64

CG 14 64

Ma 14 56

E 14 57

Go 13 58

WIND SCALE.
M/s
13-Lt brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale
55-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30″ E

W E S

Barometers risen generally about ·03 coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

ations.	W't	M'x	M.I	R'in
sino..	c	79	59	0·10
nterfild	g	65	50	0
ree....	b	82	62	0
afton..	g	78	63	0
'n Inn's	g	66	53	0
erell..	b	71	53	0
urke ..	b	84	58	0
rrabri	b	79	58	0
midale	d	65	50	0
ndem'r	b	75	51	0
nned'h	c	87	47	0
onam'le	c	78	50	0
mworth	b	84	47	0
onab rn	b	79	49	0
Macqrie	p	72	61	0·25
ilcannia	b	74	63	0
urr'undi	f	65	53	0
ssilis..	b	71	54	0
is'br'ok	o	75	54	0
ibbo...	b	75	54	0
enindie	b	88	54	0
idgee .	b	88	48	0
itland.	p	73	54	0
ill End.	b	65	44	0
wcastle	b	73	51	0·81
range..	b	64	43	0
thurst.	f	74	41	0
23 78				
orb's	b	78	42	0
Vict'ria	b	63	48	0
ndob'lu	b	63	54	0
cton..	b	75	51	0
arcoar..	b	65	45	0
entw'th	b	86	50	0
oung...	b	76	47	0
ollgo'ng	c	74	56	0
ay....	b	80	34	0
oss Vale	b	67	50	0
iston...	b	86	42	0
oulburn	b	76	45	0
agga...	b	72	44	0
ape Geo.	b	69	56	0
ueanb'n	b	80	50	0
eniliq'in	b	72	44	0
oruya..	b	73	55	0
iandra..	b	81	41	0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 22 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

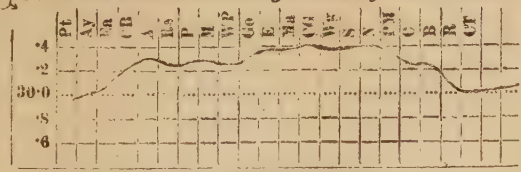
Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 22.... 14·609.
Barometers corrected to 32° Fah. and Mean Sea Level

WEATHER.
o-Blue sky.
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Cloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
Passing show'rs
Squally
r-Rain
t-Thunder
w-Threatening

WIND SCALE.
13-Li't brze
23-Mod. „
34-Fresh „
Strg gale
Whole „

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Tim
MAG. VAR. 9° 35′.0 E

As 8 30·27 F 70 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30·25 F 69

FINE GENERALLY
SYDNEY b 70 59 Rain 0·037

14 30·40 F 65

3 72 A 30·38 S.50 D

18 6 18 58 Re

14 30·37 F 55

23 59 P 30·31 F 63 M

Alb'ry b 75 41 0
B'd'l'a b 75 41 0
Coom.. c 48 33 0
Eden b 68 53 0
Gabo b 77 57 0

13 65 CO WP 23 66

Ma 14 59
E 14 57
Goo 13 59
CG 14 64
Wg 14 68
S 4 62
N 0 64
PM 14 63
C 28 64
B 65 66
R 69

W E S

Baromete fallen about ·03 on S. coast. For notes to 3p.m see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 29.—

estern Australia: N.E., showery at Perth, ·10 inches of rain strong breeze; barometer 30·14, temperature 72°. South alia: Fine at Alice Springs, all the other stations cloudy. th sea on coast, fresh breeze generally N. to N.N.W., except Darwin, where it is S.E. Victoria: Cloudy, except at Melne; strong breeze at Cape Otway and Portland, N. to N.N.W., smooth sea on coast. New Wales: Fine generally, except at Grafton, e it is raining heavily; and showery at Casino and Clarence s; 0·8 rain fell at Casino, and 0·18 at Grafton; foggy at ellbrook, Sydney, Bathurst, and Bedalla; smooth sea along Queensland: Showery at Rockhampton and Cape Moreon; fine at Brisbane; moderate sea at Cape Moreton; own, cloudy, with S.W. breeze, 3 p.m. Observations.— South Wales: Wentworth, N.W., cloudy, temre 68°; Albury, calm, fine, clear; Forbes, no report; ya, N.E., fine, moderate sea, temperature 77°; Sydney, N.E., fine, temperature 69°; Port Macquarie, E., light, fine, h sea, temperature 73°; Deniliquin, N.W., fine, temperature Goulburn, E., light, fine, temperature 63°; Eden, N.E., fine, light sea, temperature 68°; Cape George, N., light, mooth sea, temperature 70°; Newcastle, N.E., fine, smooth Clarence River, no report. State of Rivers.—Murrum: At Wagga, 1 foot 6 inches above summer level; at Hay, er level; at Balranald, 3 feet above summer level. Murray: ury, 1 foot 9 inches above summer level; at Euston, 1 foot hes above summer level. Darling: At Wentworth, 3 feet hes above summer level; at Pooncarie, 2 feet 10 inches summer level; at Menindie, 2 feet above summer level; bannia, summer level.

WEATHER MAP.

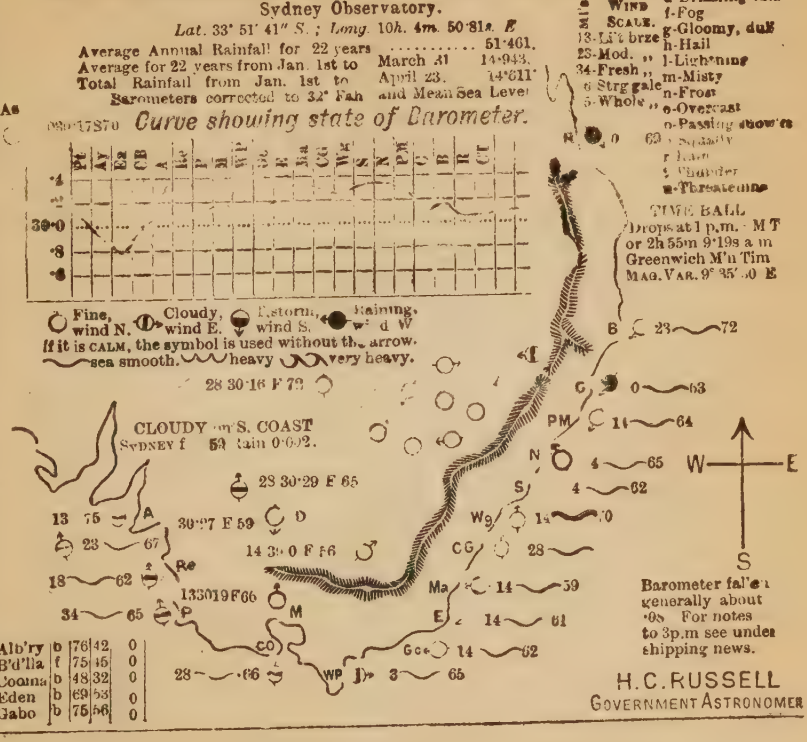
COMPILED from TELEGRAMS for 9 A.M., APRIL 23 1881, with NOTES to 9 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S. ; *Long.* 10*h.* 4*m.* 50·81*s.* E

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 23. 14·611
Barometers corrected to 32° Fah and Mean Sea Level

ations.	w'b	M'x	M.A	R'in
ino..	p	72 61	0·58
nterfild	g	65 51	0
ree....	b	80 63	0
afton..	r	77 47	0·18
n Inn's	c	62 49	0
erell..	b	74 47	0
urke ..	b	83 57	0
rrabri	b	8 57	0
midale	b	65 50	0
ndem'r	b	71 49	0
unned'h	b	87 42	0
ponamle	b	80 55	0
nworth	b	87 47	0
bnab ru	b	79 41	0
Macqrie	b	72 59	0·08
ilcannia	b	75 69	0
urr'undi	b	72 55	0
ssilis..	o	73 55	0
is'br'ok	f	78 55	0
bbo...	b	75 46	0
enindie	b	82 54	0
dgee ..	b	82 56	0
aitland.	b	73 56	0·01
ill End.	b	65 44	0
eweastle	b	74 57	0
range..	b	64 45	0
athurst.	f	73 40	0
28 75		K	
orb's	b	79 56	0
Vict'ria	b	63 52	0
ondob'ln	b	65 56	0
ncton..	f	75 50	0
arcoar..	b	67 48	0
Wentw'th	b	87 50	0
Young...	b	75 48	0
Wollgo'ng	n	77 59	0
Hay....	b	80 39	0
Moss Vale	b	68 47	0
Euston...	b	94 55	0
Goulburn	b	77 40	0
Wagga...	b	74 46	0
Cape Geo.	b	71 56	0
Queanb'n	b	83 47	0
Deniliq'in	b	78 44	0
Moruya..	b	71 51	0
Kiandra..	b	83 64	0



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 25.

Western Australia: Fine at Albany, with moderate sea, barometer 30·09, temperature 59°. South Australia: Cloudy at Robe, Cape Borda, and Adelaide, wind between N. and W.; squally at Cape Borda, with rough sea, 0·76 of an inch of rain fell at Adelaide, and 1·05 at Robe. Victoria: Raining at Melbourne and Cape Otway, and showery at Portland; cloudy weather at Wilson's Promontory and threatening; 0·12 of rain recorded at Cape Otway, and 0·53 at Portland; smooth sea on coast. New South Wales: Fine generally, with smooth sea along E. coast, cloudy to the westward, and raining at Menindie and Wilcannia; threatening at Wentworth and Deniliquin; 0·28 of rain fell at Cosmo, 0·22 at Tenterfield, 0·02 at Grafton, 1·00 at Clarence Heads, 0·02 at Armidale, and 0·03 at Port Macquarie; wind light and variable. Queensland: Fine at Brisbane, with strong S.W. breeze and moderate swell at Cape Moreton; weather threatening at Rockhampton, with 0·44 of rain to 9 a.m., and 0·07 at Cape Moreton. 3 p.m. Observations.—Victoria: Portland, showery, squally, smooth sea, temperature 65°; Cape Otway, N., 15, cloudy, temperature 68°; Wilson's Promontory, N.W., 13, light rain, slight sea, temperature 66°. New South Wales: Wentworth, N.N.W., dull, temperature 67°; Forbes, calm, fine, temperature 81°; Moruya, N.E. light, fine, rough sea, temperature 71°; Sydney, N.E. fresh, fine, smooth sea, temperature 69°; Port Macquarie, N.E. light, fine, smooth sea, temperature 71°; Deniliquin, calm, showery, temperature 70°; Goulburn, calm, fine, temperature 68°; Eden, N. fresh, fine, heavy sea, temperature 70°; Cape George, N. fresh, fine, smooth sea, temperature 76°, Newcastle, N.E., fine, smooth sea; Clarence River, S.E. light, cloudy, smooth sea, temperature 72°. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 6 inches above summer level; at Hay, summer level; at Balranald, 1 foot 6 inches above summer level. Murray: At Albury, 1 foot 9 inches above summer level; at Euston, 2 feet 3 inch above summer level. Darling: At Wentworth, 4 feet 1 inche above summer level; at Pooncarie, 2 feet 6 inches above summer level; at Menindie, 3 feet above summer level; at Wilcannia, 3 feet above summer level.

WEATHER MAP.

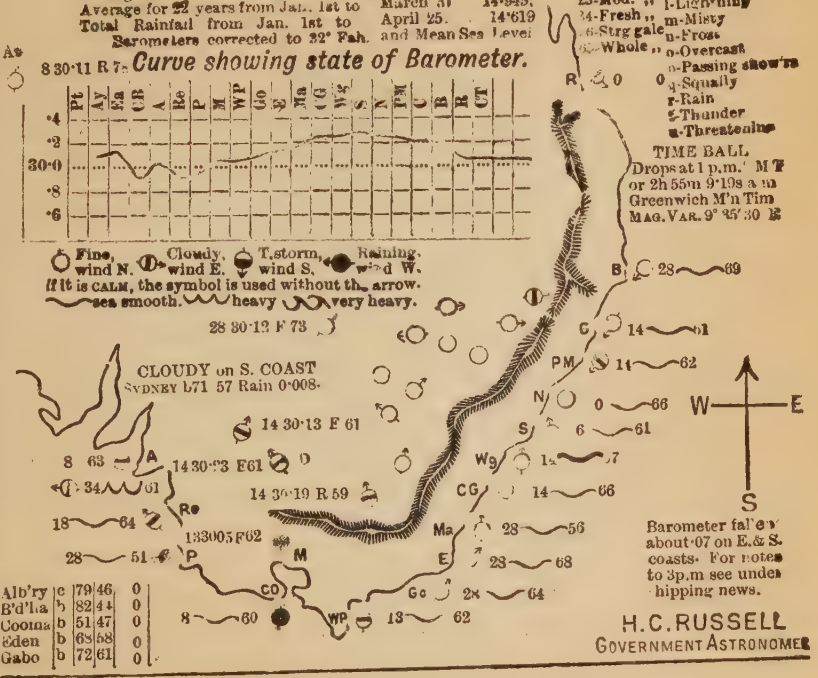
COMPILED from **TELEGRAMS** for 9 A.M., APRIL 25 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·8*s.* *E*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 22 years from Jan. 1st to March 31 14·943
Total Rainfall from Jan. 1st to April 25 . 14·619
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	wt	M'x	M.	R'in
Sino..	c	77	55	0·28
Interfild	c	65	49	0·22
Tree....	b	91	62	0
Grafton..	c	74	46	0
In Inn's	b	70	43	0·03
Everell..	b	76	41	0
Burke ..	b	84	58	0
Barrabri	b	82	55	0
Armidale	b	65	42	0·02
Tenden'r	b	73	41	0
Gunned'h	b	88	44	0
Bonam'le	c	81	53	0
Camworth	b	84	47	0
Bonab rn	b	79	41	0
S.Macqrie	g	75	59	0
Wilcannia	r	78	70	0
Burr'undi	b	73	50	0
Cessilis..	b	75	46	0
Bus'br'ok	b	78	48	0
Bubbo...	b	76	56	0
Henindie	r	85	61	0
Budgee..	b	87	54	0
Hartland.	b	74	51	0
Hill End.	b	67	42	0
Newcastle	b	76	56	0
Orange..	b	65	46	0
Bathurst.	b	76	38	0
0 63		E		
Forb's	b	89	55	0
Mt Vict'ria	b	64	51	0
Condob'ln	c	68	55	0
Picton..	f	77	44	0
Carcoar..	b	68	50	0
Wentw'th	g	87	59	0
Young...	b	78	49	0
Wollgo'ng	n	76	60	0
Hay....	u	85	49	0
Moss Vale	b	65	52	0
Euston...	.	..	..	0
Goulburn	c	76	37	0
Wagga...	b	80	51	0
Cape Geo.	b	73	58	0
Queanb'n	b	79	45	0
Deniliq'in	g	84	55	0
Moruya..	b	73	53	0
Kiandra..	b	80	46	0
Alb'ry	c	79	46	0
B'd'lla	b	82	44	0
Cooma	b	51	47	0
Eden	b	68	58	0
Gabo	b	72	61	0



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—APRIL 26.

Western Australia: Gloomy, with fresh E. breeze at Perth; the rometer being 30·17, and temperature 71°; Albany, fine, wind , almost calm, barometer 30·27, temperature 61°, very smooth a. South Australia: Fine at Cape Borda and Alice Springs; e barometers have risen about ·11 since yesterday, slight sea at ape Borda. Victoria: Fine at Melbourne and showery at Cape tway; the barometers show a large rise since yesterday; oderate sea at Wilson's Promontory and Cape Otway; wind etween S.W. and W.N.W., blowing rather strong. New South Vales: Fine generally and calm, with smooth sea on E. coast; 39 of an inch of rain fell at Wilcannia, 0·22 at Menindie, 0·06 at range, 0·02 Bathurst, 0·07 Euston, 0·46 Wagga, 0·04 Queanevan, 0·12 Deniliquin, 0·75 Kiandra, 0·16 Albury, and 0·01 at Sabo Island. Queensland: Brisbane fine, smooth sea at Cape Moreton, light S.W. breeze at Brisbane; 0·09 of rain recorded at a.m., and 0·37 at Rockhampton; the barometer has risen very lightly. 3 p.m. Observations.—Victoria: Melbourne, S.W., 3, cloudy, dull, temperature 62°; Cape Otway, W., 8, gloomy, moderate sea, temperature 58°; Wilson's Promontory, W.S.W., 23, cloudy, dull, moderate sea, temperature 57°. New South Wales: Wentworth, S., fine, temperature 63°; Albury, calm, fine, temperature 67°; Goulburn, W., fine, temperature 69°; Eden, S.W., fine, light E. sea, temperature 70°; Moruya, S.E., fine, sea moderate, temperature 63°; Cape George, calm, cloudy, smooth sea, temperature 75°; Sydney, N.E. light, fine, smooth sea, temperature 73°; Newcastle, N.W., fine, smooth sea; Port Macquarie, N.E., cloudy, smooth sea, temperature 71°. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 3 inches above summer level. Murray: At Albury, 1 foot 10 inches above summer level. Darling: At Wentworth, 1 foot 4 inches above summer level; at Pooncarie, 2 feet above summer level; at Menindie, 3 feet above summer level; at Wilcannia, 2 feet 10 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., APRIL 26 1881, with Notes to 3 P.M.

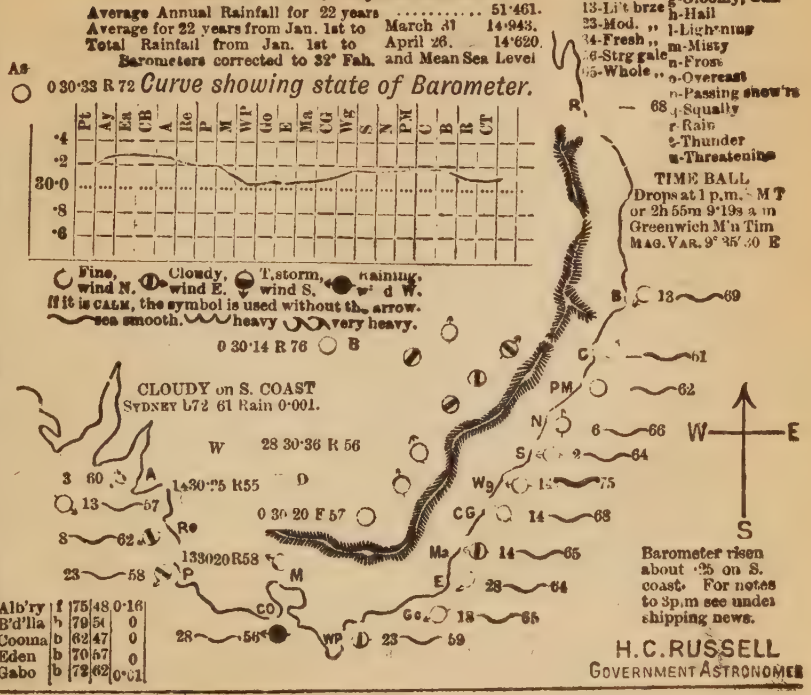
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years	.....	51·461.
Average for 22 years from Jan. 1st to	March 31	14·943.
Total Rainfall from Jan. 1st to	April 26.	14·620.

Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.I.	R'in
Casino..	b	81	53	0
Tenterfild	b	66	43	0
Moree....	g	89	65	0
Grafton..	b	77	45	0
Gl'n Inn's	b	61	44	0
Inverell..	b	75	47	0
Bourke ..	b	82	64	0
Narrabri	b	82	58	0
Armidale	c	67	45	0
Bendem'r	b	75	46	0
Gunned'h	c	92	43	0
Coonam'le	b	79	57	0
Tamworth	c	86	44	0
Coonab rn	c	81	47	0
P.Macqrie	o	74	57	
Wilcannia	c	74	..	0·39
Murr'undi	g	72	53	0
Cassilis..	b	76	61	0
Mus'br'ok	g	80	51	0
Dubbo...	b	77	57	0
Menindie	b	73	56	0·22
Mudgee..	g	88	52	0
Maitland.	c	73	56	0
Hill End.	u	67	46	0
Newcastle	b	74	58	0
Orange..	b	67	48	0·06
Bathurst.	b	74	47	0·02
S 64		E		
Forb's	b	83	55	0
MtVict'ria	b	64	54	0
Condob'ln	g	69	54	0
Picton..	b	73	50	0
Carcoar..	b	67	55	0
Wentw'th	b	75	48	0
Young...	c	75	57	0
Wollgo'ng	o	79	62	0
Hay....	b	70	63	0
Moss Vale	b	67	52	0
Euston...	b	72	46	0·07
Goulburn	b	78	47	0
Wagga...	u	76	58	0·46
Cape Geo.	b	72	60	0
Queanb'n	b	73	53	0·04
Deniliq'in	b	72	47	0·12
Moruya..	b	74	56	0
Kiandra..	b	80	46	0·75



Alb'ry	f	75	48	0·16
B'd'lla	b	79	56	0
Cooma	b	62	47	0
Eden	b	70	57	0
Gabo	b	72	62	0·01

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 27.

Western Australia: Fine at Albany with very smooth sea, and very light N.E. wind; at Perth a fresh N.E. breeze is blowing; barometers 30·16; temperature at Perth, 76°, and Albany, 64°. South Australia: Cloudy at Cape Borda and Eucla, the barometers having risen slightly; N.E. wind at Eucla, and from S.E. to S.W. at the other stations; smooth sea at Robe. Victoria: Cloudy throughout; showery at Cape Otway; at Melbourne 0·01 of rain was recorded at 9 a.m.; 0·40 at Portland, and 0·17 at Cape Otway; wind generally between W.S.W. and S., blowing fresh at Portland; moderate sea on coast. New South Wales: Cloudy generally to the S. and W. of Sydney, and threatening rain; showers at Wollongong and Mount Victoria, and raining at South Head. 0·25 of rain was recorded at Orange this morning, 0·04 at Bathurst, 0·21 at Mount Victoria, 0·01 at Sydney, 0·95 at Wollongong, 0·01 at Moss Vale, 0·05 at Cape St. George, 0·08 at Eden, 0·02 at Gabo Island, 0·13 at Carcoar; calm weather at most of the stations, and smooth sea along the E. coast. Queensland: Fine with light S.E. breeze at Cooktown and Rockhampton; moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, S., 13, showery, temperature 55°; Portland, S., 23, cloudy, moderate sea, temperature 59°; Cape Otway, S.E., 8, showery, moderate sea, temperature 57°; Wilson's Promontory, S.W., 13, cloudy, smooth sea, temperature 59°. New South Wales: Wentworth, S., cloudy, temperature 61°; Deniliquin, S., 14, dull, like rain, temperature 65°; Albury, calm, fine, temperature 63°; Goulburn, E.S.E., dull, temperature 67°; Forbes, calm, fine, temperature 79°; Eden, calm, like rain, light sea, temperature 63°; Moruya, S.W., 14, showery, moderate sea, temperature 63°; Cape George, S.S.W., 28, showery, smooth sea, temperature 64°; Sydney, E., 3, dull, smooth sea, temperature 66°; Newcastle, S.S.E., raining, smooth sea; Port Macquarie, E., 14, fine, smooth sea, temperature 72°; Clarence River, S.E., 14, fine, smooth sea, temperature 76°. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 11 inches above summer level; at Hay, summer level: at Balranald, 9 inches above summer level. Murray: At Albury, 1 foot 10 inches above summer level; at Euston, 2 feet 9 inches above summer level. Darling: At Wentworth, 4 feet 6 inches above summer level; at Pooncarie, 2 feet 3 inches above summer level; at Menindie, 4 feet above summer level; at Wilcannia, 2 feet 9 inches above summer level.

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., APRIL 27 1881, with **NOTES** to 3 P.M.

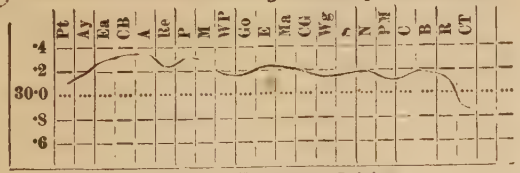
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 27. 14 627
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	w't	M'x	M.	R'in
Casino..	b	83	53	0
Tenterfild.	b	72	41	0
Moree....	b	89	65	0
Grafton..	b	80	59	0
Gl'n Inn's	b	76	43	0
Inverell..	b	75	55	0
Bourke ..	b	88	60	0
Narrabri	g	82	52	0
Armidale	b	67	43	0
Bendem'r	b	76	43	0
Gunned'h	b	91	42	0
Coonam'le	c	82	53	0
Tamworth	.	..	..	0
Coonab rn	o	86	44	0
P.Macqrie	b	73	56	
Wilcannia	b	74	66	0
Murr'undi	b	78	51	0
Cassilis..	u	78	47	0
Mus'br'ok	b	83	53	0
Dubbo...	b	79	61	0
Menindie	b	77	56	0
Mudgee..	u	84	55	0
Maitland.	b	71	60	0
Hill End.	c	67	46	0·11
Newcastle	b	84	66	0
Orange..	g	65	50	0 25
Bathurst.	g	76	47	0·04
13 63 E				
Forb's	b	79	51	0
Mt Vict'ria	p	62	54	0·21
Condob'ln	.	..	.	
Picton..	o	80	56	0
Carcoar..	c	68	54	0·13
Wentw'th	b	71	48	0
Young...	b	75	53	0
Wollgo'ng	p	81	61	0·95
Hay....	c	75	31	0
Moss Vale	u	70	55	0·04
Euston...	g	70	43	0
Goulburn	u	75	55	0
Wagga...	g	71	48	0
Cape Geo.	g	78	60	0·05
Queanb'n	c	76	51	0
Deniliq'n	b	72	43	0
Moruya..	g	81	58	0
Kiandra..	c	44	24	0
Alb'ry	b	71	42	0
B'd'lla	c	81	71	0
Cooma	u	52	38	0
Eden	u	79	50	0·08
Gabo	b	68	57	0·02

As 0 30·21 S 2 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

CL'DY GENERALLY.
SYDNEY u75 64 Rain 0·007.

14 30·15 R 70 B
W 14 30·37 R 55
8 60 A
1430·27 R52 D
18 55
8 57 R
0 30·19 F 53
830·26F54
23 57 P M
CO
8 53
WP 13 56
Ma 14 59
E 14 59
Go 13 61
CG 28 64
S 8 65
Wg 14 53
N 6 69
PM 14 66
C 14 52
B 3 69
8 69
R

Mile Scale. WIND
13-Li't brze
23-Mod. "
34-Fresh "
55-Strg gale
65-Whole "

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 30 E

W E S

Barometer risen about ·18 on S.E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS. 28

South Australia: Fine weather at Alice Springs, and calm fresh breeze on the coast, and moderate sea at Cape Borda. The barometers have risen slightly at Robe and Alice Springe, and fallen slightly at Cape Borda and Eucla. New South Wales: Fine generally, with a rising sea at Cape St. George, and rough sea at Moruya Heads; cloudy generally southward of Cape St. George; showery at Cape St. George and Cooma, and raining at Eden; frosty at Carcoar, and foggy at Mudgee and Bathurst; 0·10 of rain fell at Bendemeer, 0·27 at Cassilis, 0·04 at Muswellbrook, 0·27 at Mudgee, 0·05 at Orange, 0·11 at Bathurst, 0·18 at Mount Victoria, 0·08 at Moss Vale, 0·19 at Cape George, 0·01 at Hill End, 0·03 at Queanbeyan, 0·04 at Moruya, 0·30 at Bodalla, 0·92 at Eden, and 1·47 at Gabo Island. Queensland: Cloudy at Cooktown, and threatening; 0·70 of rain recorded at 9 a.m.; strong breeze from the S.W. at Brisbane, and S.E. at Rockhampton and Cooktown; slight rise in the barometer at Brisbane; smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, S., 13, fine, temperature 62°; Cape Otway, E.S.E., 18, cloudy, temperature 59°; Portland, S.S.E., 28, cloudy, smooth sea, temperature 60°; Wilson's Promontory, E., 28, cloudy, rather rough sea, temperature 57°. New South Wales: Wentworth, S., like rain, temperature 57°; Albury, S.E., fine, temperature 63°; Forbes, calm, fine, temperature 79°; Moruya, S.W., cloudy, squally, rough sea, temperature 58°; Sydney, S.S.W., dull, gloomy, smooth sea, temperature 63°; Port Macquarie, S., strong, smooth sea, temperature 77°; Deniliquin, calm, fine, temperature 68°; Goulburn, S., dull, temperature 63°; Eden, S.W., showery, heavy sea, temperature 59°; Cape George, S.S.W. strong, showery, heavy sea, temperature 61°; Newcastle, E.S.E., fine, smooth sea; Clarence River, S.E., smooth sea, temperature 76°. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 3 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot 10 inches above summer level; at Euston, 2 feet inches above summer level. Darling: At Wentworth, 4 feet inches above summer level; at Poonoarie, 2 feet above summer level; at Menindie, 4 feet 6 inches above summer level; at Wilcannia, 2 feet 8 inches above summer level.

WEATHER MAP.

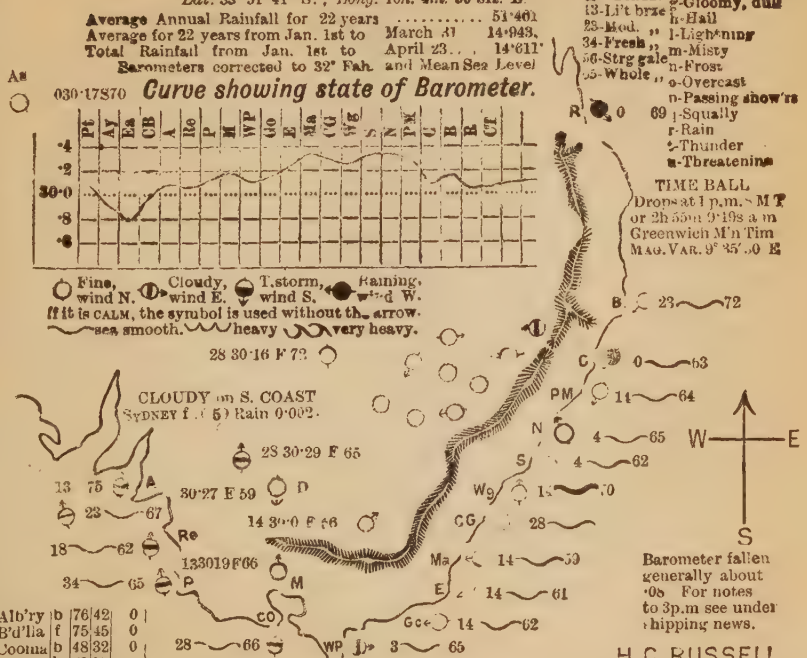
COMPILED from TELEGRAMS for 9 A.M., APRIL 23 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 23... 14·611
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	M.T.	R'in
Casino..	p	72 61	0·58
Tenterfild	g	65 51	0
Moree....	b	80 63	0
Grafton..	r	77 47	0·18
Gl'n Inn's	c	62 49	0
Inverell..	b	74 47	0
Bourke ..	b	83 57	0
Narrabri	b	8 57	0
Armidale	b	65 50	0
Bendem'r	b	71 49	0
Gunned'h	b	87 42	0
Coonam'le	b	80 55	0
Tamworth	b	87 47	0
Coonab rn	b	79 41	0
P.Macqrie	b	72 59	0·08
Wilcannia	b	75 69	0
Murr'undi	b	72 55	0
Cassilis..	o	73 55	0
Mus'br'ok	f	78 55	0
Dubbo...	b	75 46	0
Menindie	b	82 54	0
Mudgee..	b	82 56	0
Maitland.	b	73 56	0·01
Hill End.	b	65 44	0
Newcastle	b	74 57	0
Orange..	b	64 45	0
Bathurst.	f	73 40	0
28 75 E			
Corb's	b	79 56	0
Mt Vict'ria	b	63 52	0
Condob'lin	b	65 56	0
Picton..	f	75 50	0
Carcoar..	b	67 48	0
Wentw'th	b	87 50	0
Young...	b	75 48	0
Wollgo'ng	n	77 59	0
Hay....	b	80 39	0
Moss Vale	b	68 47	0
Euston...	b	94 55	0
Goulburn	b	77 40	0
Wagga...	b	74 46	0
Cape Geo.	b	71 56	0
Queanb'n	b	83 47	0
Deniliq'in	b	78 44	0
Moruya..	b	71 51	0
Kiandra..	b	83 64	0
Alb'ry	b	76 42	0
B'd'lla	f	75 45	0
Cooma	b	48 32	0
Eden	b	69 53	0
Gabo	b	75 56	0



H.C.RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 29.

Western Australia: Fine at Perth, with light breeze from E.; barometer, 30·17; temperature, 71°. Albany, barometer, 30·16; temperature, 65°; sea dead calm. South Australia: Cloudy at Adelaide and Cape Borda, light breeze between E.N.E. and S.E., and moderate sea at Cape Borda; the barometers show a slight rise. Victoria: Fine at Portland and cloudy at other stations, fresh breeze from E. with moderate sea on coast, the barometers have risen slightly since yesterday, 0·02 of rain at Wilson's Promontory, dense fog at Melbourne. New South Wales: Cloudy generally, strong breeze from S. and S.W. on the coast, and chiefly from the E. inland, heavy sea at Cape St. George and Moruya, showery at Newcastle, Sydney, and Cape St. George, 0·44 of an inch of rain recorded at Newcastle, 0·12 at Sydney, 0·14 at Mossvale, 0·02 at Goulburn, 0·02 at Cooma, and 0·40 at Eden; the barometer has risen about 0·15 on E. coast. Queensland: Cloudy at Brisbane, and fine at Rockhampton, smooth sea at Cape Moreton, blowing strong from S. at Brisbane. 3 p.m. Observations:—Victoria: Melbourne, S.E., 13, fine, temperature 61°; Cape Otway, E.S.E., 13, cloudy, moderate sea, temperature 59°; Portland, S., 28, smooth sea, temperature 61°; Wilson's Promontory, E.S.E., 23, cloudy, moderate sea, temperature 57°. New South Wales: Albury, S.E., light clear, temperature 62°; Forbes, calm, fine, temperature 68°; Sydney, S., light, dull, smooth sea, temperature 62°; Port Macquarie, S., fine, smooth sea, temperature 68°; Deniliquin, calm, temperature 66°, Goulburn, S.E., fine, temperature 61.; Eden, S.W., showery, light E. sea, temperature 60°; Cape George, S. strong, cloudy, showery, heavy sea, temperature 61°; Newcastle, S., raining heavily, moderate sea; Clarence River, S., fresh, like rain, moderate sea, temperature 71°. State of Rivers: Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot 10 inches above summer level; at Euston, 3 feet above summer level. Darling: At Wentworth, 4 feet 6 inches above summer level; at Pooncarie, 2 feet above summer level; at Menindie, 4 feet 8 inches above summer level; at Wilcannia, 2 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from **Telegrams** for 9 A.M., APRIL 29 1881, with **Notes** to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 29. 14·752.
Sea waters corrected to 32° Fah. and Mean Sea Lev

Stations.	w'b	M'x	M.S.	R'in
Casino.	c	85	61	0
Tenterfild	b	74	45	0
Moree....	b	88	51	0
Grafton..	b	80	58	0
Gl'n Inn's	u	74	49	0
Invereil..	b	76	42	0
Bourke ..	b	74	51	0
Narrabri	b	91	55	0
Armidale	u	69	46	0
Bendem'r	b	74	45	0
Gunned'h	u	89	44	0
Coonam'le	b	71	48	0
Tamworth	b	82	40	0
Coonab rn	g	77	36	0
P.Macqrie	g	70	57	
Wilcannia	b	68	61	0
Murr'undi	u	70	60	0
C ssilis.	u	69	54	0
M is'br'ok	g	75	53	0
Dubbo...	c	69	51	0
Meninde	b	60	37	0
Madgee .	u	80	54	0
Maitland.	u	77	57	0
Hill End.	b	60	37	
Newcastle	p	70	54	0·44
Orange..	c	59	42	0
Bathurst.	b	64	49	0
5 63		E		
Forb's	b	80	48	0
Mt Vict'ria	g	54	43	0
Condob'lin	.	.	.	..
Picton..	b	66	51	0
Carcoar..	.	.		..
Wentw'th	n	64	45	0
Young...	b	70	43	0
Wollgo'ng	g	69	53	0
Hay....	b	71	33	0
Moss Vale	b	55	44	0·14
Euston...	b	66	44	0
Goulburn	b	62	32	0·02
Wagga...	b	66	44	0
Cape Geo.	p	73	53	0
Queanb'n	b	63	43	0
Deniliq'in	b	53	21	0
Moruya..	g	74	51	0·04
Kiandra..	b	62	44	0

As 3 30·21 R 7

Curve showing state of Barometer.

Barometer risen about 0·15 on E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—April 30.

Western Australia: Fine at Perth, with fresh breeze from E.N.E.; barometer, 30·12; temperature, 78°. South Australia: Cloudy generally, raining at Alice Springs, wind generally light between E. and S.E., with smooth sea on the coast; ·03 of rain at Alice Springs. Victoria: Cloudy at Cape Otway and Portland, with smooth sea on coast, wind light, and generally between S.E. and S.W.; the barometers show a rise of 0·11 since yesterday. New South Wales: Cloudy in northern stations, also some coast and inland stations to the east of range; wind generally between E. and S. throughout the colony. At 9 a.m., 0·05 of rain was recorded at West Maitland, 0·66 at Newcastle, and 0·04 at Eden; heavy sea on coast southward of Wollongong. The barometer has risen about ·12 since yesterday; raining at Clarence Heads, showery at Cooma, and foggy at Goulburn. Queensland: Fine; light breeze from S. at Brisbane, and from S.E. at Rockhampton and Cooktown. At Cape Moreton 1·10 inches of rain were recorded; smooth sea on coast. 3 p.m. Observations—Victoria: Portland, S.E., 28, cloudy, sea smooth, temperature 55°; Wilson's Promontory, S.W. 13, cloudy, slight sea, temperature 56°. New South Wales: Wentworth, calm, fine, temperature 63°; Deniliquin, calm, fine, clear, temperature 65°; Goulburn, 9 a.m. fine, temperature 58°; Forbes, calm, fine, temperature 66°; Eden, S.S.W., 28, fine, heavy sea, temperature 61°; Moruya, N.E., 42, cloudy, heavy sea, temperature 63°; Cape George, S., 42, fine, heavy sea, temperature 62°; Sydney, S., 3, fine, moderate sea, temperature 62°; Newcastle, S., raining, moderate sea; Port Macquarie, S., 42, cloudy, moderate sea, temperature 68°; Clarence River, S.W., 42, showery, moderate sea, temperate 68°. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Hay, summer level; at Balranald, 3 inches above summer level. Murray: At Euston, 3 feet above summer level. Darling: At Wentworth, 4 feet 4 inches above summer level; at Pooncarie, 2 feet 2 inches above summer level; at Menindie, 4 feet 9 inches above summer level; at Wilcannia, 2 feet 4 inches above summer level.

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., APRIL 30 1881, with **NOTES** to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E.*

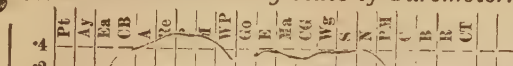
Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to March 31 14·943.
Total Rainfall from Jan. 1st to April 30. 14·753.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	Min	R'in
Casino..	c	72	57	0
Tenterfild	u	64	48	0
Moree....	g	81	60	0
Grafton..	u	69	61	0
Gl'n Inn's	b	67	47	0
Inverell..	b	73	56	0
Bourke ..	b	76	52	0
Narrabri	g	75	55	0
Armidale	g	69	47	0
Bendem'r	b	66	49	0
Gunned'h	b	77	44	0
Coonam'le	b	72	43	0
Tamworth	b	76	47	0
Coonab rn	b	71	40	0
P.Macqrie	o	70	57	
Wilcannia	b	67	62	0
Murr'undi	g	61	53	0
Cassilis..	u	69	50	0
Mus'br'ok	g	67	51	0
Dubbo...	b	68	47	0
Menindie	b	72	47	0
Mudgee..	b	74	45	0
Maitland.	c	66	57	0·05
Hill End.	c	56	34	0
Newcastle	g	69	51	0·66
Orange..	b	59	36	0
Bathurst.	b	61	32	0
13 66	E			
Forb's	b	73	43	0
MtVict'ria	b	51	39	0
Condob'ln	.	..		..
Picton..	b	65	38	0
Carcoar..	g	58	40	0
Wentw'th	b	73	45	0
Young...	b	64	44	0
Wollgo'ng	b	67	51	0
Hay....	b	74	33	0
Moss Vale	b	55	41	0
Euston...	b	72	45	0
Goulburn	f	63	30	0
Wagga...	b	65	38	0
Cape Geo.	c	73	53	0
Queanb'n	b	75	33	0
Deniliq'in	b	71	41	0
Moruya..	b	72	43	0
Kiandra..	b	38	23	0

Alb'ry	b	..	..	..
B'd'lla	b	69	34	0
Cooma	p	43	28	0
Eden	b	61	50	0·04
Gabo	.	--	.	..

As 0 30·49 R 5

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30·20 R 61

FINE GENERALLY.
SYDNEY 63 51 Rain 0·061.

W — 30·47 R 52

14 30·43 R49

30·47 R 53

73

WEATHER.
e-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Mists
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
13-Li't brze
23-Mod. "
34-Fresh "
45-Strg gale
5-Whole "

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·198s a.m.
Greenwich M'n Tim
MAG. VAR. 9° 35′ 50″ E

Barometer risen generally about 0·11. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 7.

Western Australia: Cloudy at Perth, with light S.E. breeze, also light rain, smooth sea on coast. South Australia: Fine at Alice Springs, fresh breeze between N.E. and S.E., barometer fell about ·09, and smooth sea at Robe; 0·45 of rain at Alice Springs; Port Darwin, W., fine, barometer 29·87; Daly Waters, 29·96, calm, fine. Victoria: Fine, with smooth sea on south coast, and moderate N.E. and E.N.E. wind blowing; the barometers have commenced to fall slightly. New South Wales: Fine generally, cloudy at the northern stations, also some of the coast and inland stations; raining at Grafton, Mount Victoria, Euston; showery at Clarence Heads and Sydney; foggy at Mount Victoria; 1·25 of rain fell at Clarence Heads, 0·25 at Casino, 0·48 at West Maitland, 0·05 at Newcastle, 0·42 at Mount Victoria, 0·10 at Moss Vale, 0·05 at Glen Innes; heavy sea at Clarence, Port Macquarie, and Moruya. Queensland: Cloudy at Rockhampton, and showery at Brisbane and Cape Moreton, wind S.E., and blowing strong at Rockhampton; 0·01 of rain fell at Brisbane, and 0·42 at Rockhampton; moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, barometer fallen 0·13 since 9 a.m., E., 8, fine, temperature 70°; Cape Otway, E., 18, fine, smooth sea, temperature 60°; Portland, E.N.E., 23, cloudy, smooth sea, temperature 64°; Wilson's Promontory, N.E., 23, cloudy, smooth sea, temperature 60°. New South Wales: Wentworth, N.E., variable, fine, temperature 68°; Albury, calm, fine, temperature 61°; Forbes, calm, fine, clear, temperature 72°; Moruya, S., 20, gloomy, sea rough, temperature 63°; Sydney, W.S.W., light, dull, gloomy, smooth sea, temperature 59°; Port Macquarie, S., 42, fine, sea heavy, temperature 68°; Deniliquin, N.E., 14, fine, temperature 67°; Goulburn, E.S.E., dull, temperature 68°; Cape George, E., 14, cloudy, moderate sea, temperature 60°; Newcastle, S.E., fine, smooth sea; Clarence River, S., showery, moderate sea, temperature 68°. Telegram at 4 p.m. from Wellington, New Zealand, reports very strong gale from S.S.E., weather squally, sea very high, barometer 30·07. A strong east to S.E. gale is blowing on to the coast of Queensland, barometers 30·30. Heavy sea on the coast about Clarence River 3 p.m.: Barometers fallen 0·12 in Victoria and southern parts of New South Wales since 9 a.m. For rain and temperature at Sydney see near centre of weather map. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Balranald, summer level. Murray: At Albury, 1 foot 10 inches above summer level; at Euston, 1 foot 9 inches above summer level. Darling: At Wentworth, 4 feet 2 inches above summer evel; at Pooncarie, 2 feet 3 inches above summer level; at Menindie, 4 feet 10 inches above summer level; at Wilcannia, 2 eet 2 inches above summer level.

WEATHER MAP.

COMPILED from **Telegrams** for 9 A.M., MAY 2 1881, with **Notes** to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May ... 15·355.
Barometers corrected to 32° Fah and Mean Sea Level.

Stations.	W't	M'x	M'n	R'in
Casino..	c	74 56	0·25	
Tenterfild	u	62 40	0	
Moree....	b	86 56	0	
Grafton..	r	76 59	0	
Gl'n Inn's	c	63 48	0·05	
Inverell..	b	73 45	0	
Bourke ..	g	76 56	0	
Narrabri	b	75 55	0	
Armidale	g	60 42	0	
Bendem'r	u	70 42	0	
Gunned'h	b	71 42	0	
Coonam'le	b	77 50	0	
Tamworth	b	76 41	0	
Coonab rn	b	70 47	0	
P.Macqrie	o	69 54	0	
Wilcannia	u	83 62	0·10	
Murr'undi	b	60 49	0	
Cassilis..	u	66 53	0	
Mus'br'ok	b	69 50	0	
Dubbo...	c	69 48	0	
Menindie	g	73 66	0	
Mudgee..	b	77 48	0	
Maitland.	g	67 54	0·48	
Hill End.	b	58 40	0	
Newcastle	b	71 58	0·05	
Orange..	b	60 48	0	
Bathurst.	b	62 40	0	
		E		
Forb's	b	81 51	0	
McVict'ria	r	50 46	0·12	
Condob'ln	b	60 51	0	
Picton..	g	65 52	0	
Carcoar..	n	60 50	0	
Wentw'th	g	75 57	0	
Young...	b	67 45	0	
Wollgo'ng	.	..	..	
Hay....	g	72 34	0	
Moss Vale	u	51 46	0·10	
Euston...	r	73 51	0	
Goulburn	g	62 39	0	
Wagga...	b	66 40	0	
Cape Geo.	c	74 56	0	
Queanb'n	b	68 38	0	
Deniliq'in	b	70 40	0	
Moruya..	b	69 49	0	
Kiandra..	.	..	..	

Alb'ry	b	69 34	0
B'd'lla	b	66 29	0
Cooma	t	47 31	0
Eden	b	63 47	0
Gabo	.	--	..

Curve showing state of Barometer.

As 3 30·26 F 6

Pt Ay Ea CB A Re P H VP Co E Ba Ne Vs S PM C B R CT

·4 ·2 30·0 ·8 ·6

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.

WIND SCALE. (Mil.)
13-Lt'r brze
23-Mod. ,,
34-Fresh ,,
46-Strg gale ,,
55-Whole ,,

WEATHER.
o-Blue sky.
e-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
t-Threatening

TIME BALL
Drops at 1 p.m. = M T or 2h 55m 9·19s a.m. Greenwich M n Tim
MAG. VAR. 9° 35′ 30 E

42 30·28 R 65

Sydney g 64 56 Rain 0·602

W 42 30·42 F 60

14 30·45 R57

0 30·18—49

8 30·49R 54

13 67 A 18 74 Re 8 55 18 56 P M CO 8 57 WP 23 58 Wg CG 42 57 Ma 28 55 E 14 51 Go B 40 4 C 42 59 PM 23 62 N 5 64 S 4 58

W E S

Barometer risen about 0·17 on E. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 5.

Western Australia: Fine at Albany, with light breeze from S. and smooth sea, temperature 63°; Perth, wind E., fresh, temperature 72°. South Australia: Cloudy throughout, wind generally N.E. light, with moderate sea at Cape Borda; and smooth at Robe. Rain has fallen in S.E. of colony, and heavily over the valley of the Murray; 0·91 of an inch at Blanchetown; 0·23 at Robe; and 0·16 at Eucla. The barometers show a slight fall. Victoria: Cloudy at all the stations, with light N.E. wind and slight sea on coast; at Portland 0·20 of an inch of rain fell. The barometers have fallen slightly since yesterday. New South Wales: Cloudy generally; raining at Wentworth and Clarence Heads, heavily at the latter station; showery at Casino and Wilcannia. (See map.) Barometers have fallen since last report; wind, between N.E. and S. light. Queensland: Fine at Brisbane and Rockhampton; S.E. wind at Rockhampton and Cooktown, blowing strong at the latter station, and S.W. at Brisbane. The barometer shows a slight rise since yesterday; moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria: Barometers falling, ·078. Melbourne, N.N.E., 13, gloomy, temperature 65°; Cape Otway, E.N.E., 8, gloomy, smooth sea, temperature 65°; Portland, E., 8, cloudy, smooth sea, temperature 62°; Wilson's Promontory, N.E., 13, gloomy, smooth sea, temperature 61°. New South Wales: Wentworth, N.E., raining, temperature 57°; Albury, calm, cloudy, temperature 62°; Forbes, calm, cloudy, temperature 68°; Moruya, N.E., 28, dull, moderate sea, temperature 65°; Sydney, E.N.E., light, cloudy, smooth sea, temperature 64°; Port Macquarie, N.E., 28, raining, moderate sea, temperature 66°; Deniliquin, N.E., 14, cloudy, temperature 64°; Goulburn, E.N.E., fine, temperature 62°; Eden, N.E., 14, cloudy, light sea, temperature 65°; Cape George, calm, cloudy, like rain, smooth sea, temperature 66°; Newcastle, E., fine, sea smooth; Clarence River, S.E., 28, raining, moderate sea, temperature 65°. [illegible] meters falling steadily to south and west, and indications [illegible] moderate southerly winds on the south coast, and barometers rising in South Australia and falling in Victoria. On the east coast unsettled weather, light and variable winds. State of rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level. Murray: At Albury, 1 foot 6 inches above summer level. Darling: At Wentworth, 4 feet 1 inch above summer level; at Menindie, 4 feet 9 inches above summer level; at [illegible] mia, 2 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 3 1884, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 3 .. 15·442.
Barometers corrected to 32° Fah. [illegible] Sea level.

Stations.	w't	M'x	M.	R'in
Casino..	p	74	56	0·14
Tenterfild.	u	61	46	0
Moree....	g	84	61	0
Grafton..	g	72	57	0·13
Gl'n Inn's	u	64	45	0·02
Inverell..	b	72	44	0
Bourke ..	g	71	57	0
Narrabri	g	76	57	0
Armidale	c	69	45	0
Bendem'r	b	67	39	0
Gunned'h	g	81	50	0
Coonam'le	c	72	50	0
Tamworth	b	80	40	0
Coonab rn	u	73	42	0
P.Macqrie	g	70	53	0
Wilcannia	p	63	61	0·42
Murr'undi	b	66	44	0
Cassilis..	u	67	41	0
Mus'br'ok	b	71	41	0
Dubbo...	c	69	52	0
Menindie	c	63	54	0.86
Mudgee..	u	76	[illegible]	0
Maitland.	b	67	50	0
Hill End.	b	59	57	0
Newcastle	b	70	55	0
Orange..	b	60	49	0
Bathurst.	b	64	37	0
64		E		
Forb's	c	74	47	0
MtVict'ria	b	52	14	0·15
Condob'lin	.	..	..	.
Picton..	c	66	53	0·20
Carcoar..	g	60	53	0
Wentw'th	r	65	54	0·35
Young...	b	66	51	0
Wollgo'ng	g	62	56	0·15
Hay....	r	72	[illegible]	0·02
Moss Vale	u	55	47	0·11
Euston...	.	..	..	..
Goulburn	b	62	39	0·01
Wagga...	o	66	50	0
Cape Geo.	b	63	56	0
Queanb'n	c	62	43	0
Deniliq'in	u	71	57	0
Moruya..	g	66	45	0
Kiandra..	b	70	52	0

Alb'ry	c	70	38	0
B'd'lla	g	70	41	0
Cooma	n	41	25	0
Eden	c	64	51	0
Gabo	c	75	56	0

Barometer fallen generally about 0·06. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 4.

South Australia: Cloudy at all stations, except Port Darwin and Daly Waters, at which two stations the wind is from [illegible], and at E.N.E. at the remainder; moderate sea at Ca[illegible]; the barometers have still fallen slightly; 0·4 rain at Re[illegible] 0·08 at Alice Springs since yesterday. Victoria: Clo[illegible] stations, misty rain at Wilson's Promontory, and sho[illegible] Melbourne; 0·14 rain at Melbourne at 9 a.m., and 0·07 at [illegible] way; the barometers have fallen about 0·06 since yesterday; [illegible] sea at Wilson's Promontory. New South Wales: Cloudy generally, wind light and between N. and E., with smooth sea on coast; showery at Casino, Grafton, Clarence Heads, and Wentworth; raining at Deniliquin, Albury, and Gabo; 0·15 of rain fell at Casino, 0·20 Tenterfield, 0·06 Grafton, 2·16 Clarence Heads, 0·06 Glen Innes, 0·51 Port Macquarie, 0·46 Wilcannia, 0·24 Menindie, 0·077 at Sydney, 0·06 Carcoar, 0·23 Wentworth, 0·02 Wagga, 0·25 Kiandra, 0·07 Cooma, 0·36 Deniliquin, 0·01 Gabo Island; barometer since last report has fallen about ·09. Queensland: Cloudy at Cape Moreton and Brisbane, threatening rain at Cooktown; the barometer has risen ·12 at Brisbane; moderate sea at Cape Moreton; wind S.E., blowing strong. 3 p.m. Observations.—Victoria: Melbourne, N 8, gloomy, temperature 65°; Cape Otway E 8, gloomy, smooth sea; temperature 65°; Portland, calm, cloudy, temperature 59°; Wilson's Promontory, N.N.E., 13, showery, smooth sea, temperature 59°. New South Wales: Wentworth, N., like rain, temperature 62°; Albury, calm, raining, temperature 64°; Forbes, calm, dull, temperature 69°; Moruya, N.E., 20, cloudy, heavy sea, temperature 69°; Sydney, N.N.E., 2, cloudy, smooth sea, temperature 66°; Port Macquarie, N.E., 11, fine, moderate sea, temperature 69°; Deniliquin, N.E., dull, temperature 63°; Goulburn, N.E., light, fine, temperature 65°; Eden, N.N.E., 28, cloudy, light E. sea, temperature 67°; Cape George, N., 56, fine, smooth sea, temperature 68°; Newcastle, N.E., fine, smooth sea; Clarence River, S.E., 14, showery, moderate sea, temperature 70°; easterly and northerly winds on south coast; barometers falling slowly; the drop in the barometer which appeared at Eucla yesterday has not appeared at eastern stations to-day, and was probably an error of 0·10 in reading the barometer; weather still unsettled on east coast. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Hay, summer level; at Balranald, summer level; Murray: At Albury, 1 foot 6 inches above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 4 feet 2 inches above summer level; at Pooncarie, 2 feet above summer level; at Menindie, 4 feet 8 inches above summer level; at Wilcannia, 2 feet 10 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 4 1884, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 4 . . 15 519.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	w't	M'x	Ma	R'in
Casino..	p	72	53	0·15
Tenterfild	u	60	50	0·20
Moree....	g	76	62	0
Grafton..	p	71	59	0·06
Gl'n Inn's	u	60	46	0·06
Inverell..	b	72	50	0
Bourke ..	g	73	60	0·18
Narrabri	c	73	59	0
Armidale	u	59	47	0
Bendem'r	b	66	47	0
Gunned'h	c	84	45	0
Coonam'le	b	69	54	0
Tamworth	b	79	51	0
Coonab rn	b	72	42	0
P.Macqrie	c	66	58	0·51
Wilcannia	u	66	.	0·46
Murr'undi	b	68	52	0
C. ssilis..	f	67	59	0
Mus'br'ok	g	72	49	0
Dubbo...	u	63	53	0
Menindie	g	62	54	0.24
M dgee..	b	77	48	0
Maitland.	g	68	55	0
Hill End.	g	59	41	0
Newcastle	g	71	53	0
Orange..	c	61	48	0
Bathurst.	c	66	45	0
	Ea			
Forb's	u	69	47	0
McVict'ria	u	54	43	0
Condob'ln	c	63	54	.
Picton..	o	65	53	0
Carcoar..	g	62	53	0·06
Wentw'th	p	64	59	0·23
Young...	g	66	57	0
Wollgo'ng	c	71	53	0
Hay....	.			--
Moss Vale	u	60	50	0
Euston...	g	61	53	0
Goulburn	g	65	50	0
Wagga...	u	66	55	0·02
Cape Geo.	c	69	58	0
Queanb'n	u	68	48	0
Deniliq'in	r	76	53	0·36
Moruya..	g	70	53	0
Kiandra..	o	43	30	0·25

Alb'ry	w	69	46	0
B'd'lla	r	71	43	0
Cooma	c	52	37	0·07
Eden	o	66	57	0
Gabo	r	70	59	0·01

WEATHER.
o-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
Mls
13-Lt brze
23-Mod. „
34-Fresh „
-Strg gale
-Whole „

Curve showing state of Barometer.

Barometer fallen generally about 0·06. For notes to 3p.m see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 5

Western Australia: Cloudy at Perth and Albany, strong N.N.W. wind at the former, and light E. at the latter station; at Perth temperature 78°, rainfall 0·41; light rain at Albany, and up to 9 a.m. 0·19 fell. South Australia: Cloudy, smooth sea on coast; 0·02 rain at Adelaide, 0·05 at Cape Borda, 0·04 at Robe—rain has fallen all through the colony—south of Port Augusta, 1·75 inches recorded on the Murray, over ½ an inch at Farina, and ¾ of an inch at Mount Remarkable. Victoria: Cloudy, light rain at Cape Otway and Portland and showery at Wilson's Promontory, 0·09 rain fell at Melbourne, 0·31 at Cape Otway, 0·45 at Portland, and 0·09 at Wilson's Promontory, wind light from N.N.E., slight sea at Cape Otway; the barometers have still fallen about ·07 since yesterday. New South Wales: Cloudy nearly all through the colony, and dull, like rain; raining at Euston, Hay, and Bodalla, also steady rain at Bourke, showery at Wentworth—see weather map; wind light and variable, but chiefly between S.E. and N.; moderate sea at Moruya and Gabo Island; the barometer has fallen since last report about ·10 of an inch. Queensland: Cloudy, showery at Brisbane, 0·30 recorded at 9 a.m.; wind S.E., and blowing strong at Brisbane; barometer has risen about ·07 since 9 p.m. on the 4th. 3 p.m. Observations.—Victoria: Melbourne, N., cloudy, temperature 66°; Cape Otway, N.E., gloomy, smooth sea, temperature 63°; Wilson's Promontory, N., 14, showery, smooth sea, temperature 62°. New South Wales: Wentworth, W., cloudy, showery, temperature 65°; Deniliquin, N.E., 14, showery, temperature 67°; Albury, N.W., like rain, temperature 66°; Goulburn, N., fine, temperature 68°; Forbes, calm, raining steadily, temperature 70°; Eden, N.N.E., 42, fine, light E. sea, temperature 68°; Cape George, N., 42, cloudy, smooth sea, temperature 69°; Sydney, N.E., light, cloudy, smooth sea, temperature 66°; Newcastle, calm, fine, smooth sea; Port Macquarie, N.N.E., 42, cloudy, smooth sea, temperature 70°; Clarence River, S.E., 14, showery, moderate sea, temperature 69°; Menindie reports strong S.W. wind, thunder, lightning, and rain this afternoon. Barometers very low in Western Australia, and falling generally. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 1 foot 7 inches above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 4 feet 5 inches above summer level; at Pooncarie, 1 foot 10 inches above summer level; at Menindie, 4 feet 7 inches above summer level; at Wilcannia, 2 feet 3 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 5 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 5 . . 15·521.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	w't	M'x	Ma	R'in
Casino..	c	77 58	0·12	
Tenterfild	u	62 47	0·04	
Moree....	g	80 64	0	
Grafton..	g	71 61	0·76	
Gl'n Inn's	g	64 46	0	
Inverell..	b	73 49	0	
Bourke ..	r	71 69	0·64	
Narrabri	u	78 62	0	
Armidale	b	64 47	0	
Bendem'r	g	74 44	0	
Gunned'h	u	8 43	0	
Coonam'le	c	77 56	0	
Tamworth	b	85 45	0	
Coonab rn	u	77 44	0	
P.Macqrie	c	72 57	0·28	
Wilcannia	u	69 68	0·41	
Murr'undi	g	70 49	0	
Cassilis..	b	74 45	0	
Mus'br'ok	b	61 47	0	
Dubbo...	u	76 55	0	
Menindie	c	69 58	0.75	
Mudgee .	g	80 48	0	
Maitland.	c	73 54	0	
Hill End.	g	66 44	0	
Newcastle	b	82 61	0	
Orange..	b	67 50	0	
Bathurst.	b	72 46	0	
8 61		Ea		
Forb's	g	63 49	0	
Mt Vict'ria	o	63 49	0	
Condob'lin	.	.	.	
Picton..	o	66 49	0	
Carcoar..	g	65 56	0	
Wentw'th	p	69 60	.	
Young...	g	69 56	0	
Wollgo'ng	b	72 58	0	
Hay...	r	69 44	0·21	
Moss Vale	b	65 50	0	
Euston...	r	66 60	0·18	
Goulburn	b	76 43	0	
Wagga...	g	73 59	0	
Cape Geo.	b	69 62	0	
Queanb'n	c	77 50	0	
Deniliq'in	b	64 50	0·32	
Moruya..	c	71 54	0	
Kiandra...	b	54 35	0	

Alb'ry	u	62	53	0·25
B'd'lla	c	71	43	0
Cooma	c	54	39	0
Eden	b	67	56	0
Gabo	b	67	60	0·03

As

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

WEATHER.
a-Blue sky.
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
1-Light breze
23-Mod. "
34-Fresh "
6-Strg gale
5-Whole "

TIME BALL
Drops at 1 p.m. M.T
or 2h 55m 9·198 s. m
Greenwich M'n Time
MAG. VAR. 9° 35′.0 E

Barometer fallen about 0·21 at Perth. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 6.

Western Australia: Squally at Perth, with rough sea, and misty rain at Albany with smooth sea, temperature 69°, rainfall 0·72; Albany, temperature 66°, rainfall ·19. South Australia: Cloudy at Adelaide, and raining at Eucla; wind light, and between N.E. and N.N.W.; the barometer has commenced to rise again at Robe, Eucla, and Alice Springs; 0.02 rain at Eucla, and 0.60 at Port Darwin; smooth sea at Cape Borda. Victoria: Cloudy, showery at Melbourne, with light N. wind; amount of rain 0.03, the same amount at Wilson's Promontory, and 0.41 at Portland; the barometers have risen about ·05 since yesterday; sea very smooth at Wilson's Promontory. New South Wales: Cloudy at the whole of the stations nearly, also dull and threatening; raining at Grafton, Clarence Heads, Orange, Hill End, and Queanbeyan; showery at Casino, Glen Innes, Coonabarabran, Port Macquarie, and Mudgee; 29 stations have recorded rain at 9 a.m.—see weather map; the barometers have still fallen about ·10; wind light from N.W. and N.; smooth sea on coast. Queensland: Showery weather at Brisbane, and fine at Rockhampton; wind S.E., and blowing very hard at Brisbane, with 1.55 inches of rain. 3 p.m. Observations.—Victoria, no telegrams. New South Wales: Wentworth, N.W., dull, cloudy, temperature 66°; Deniliquin, calm, cloudy, dull, temperature 68°; Albury, W., dull, like rain, temperature 63°; Goulburn, W., dull, temperature 67°; Forbes, calm, fine, temperature 70°; Eden, E.N.E., 14, cloudy, light E. sea, temperature 70°; Moruya, N.W., 20, fine, sea smooth, temperature 77°; Cape George, N., 28, cloudy, sea smooth, temperature 71°; Sydney, N.E., light, fine, sea smooth, temperature 70°; Newcastle, N.E., fine, sea smooth; Port Macquarie, N.W., 14, cloudy, sea smooth, temperature 70; Clarence River, N.W., 14, fine, sea moderate, temperature 68°. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Hay, summer level. Murray: At Albury, 1 foot 9 inches above summer level. Darling: At Wentworth, 4 feet 5 inches [illegible] summer level; at Pooncarie, 1 foot 9 inches above summer level; at Menindie, 4 feet 6 inches above summer level; at [illegible] 2 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 6 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to March 31 .. 14·943.
Total Rainfall from Jan 1st to May 6 ..... 15·522.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wt	M'x	M.l	R'in
Casino..	p	72	61	0·49
Tenterfild	u	62	51	0·53
Moree....	g	70	61	0·07
Grafton..	r	66	62	0·44
Gl'n Inn's	p	67	54	0·48
Inverell..	g	71	59	0·30
Bourke ..	f	74	59	0·41
Narrabri	b	72	56	0·13
Armidale	f	67	50	0
Bendem'r	u	71	54	0·32
Gunned'h	u	80	45	0·06
Coonam'le	c	64	56	0·56
Tamworth	c	79	48	0
Coonab rn	p	68	49	0·29
P.Macqrie	p	74	63	0·31
Wilcannia	c	67	60	0·62
Murr'undi	g	66	55	0
Cassilis..	u	70	51	0
Mus'br'ok	g	77	54	0
Dubbo...	c	79	57	0·26
Menindie	c	71	57	0.13
Mudgee..	p	78	49	0·09
Maitland.	g	71	53	0
Hill End.	r	62	44	0·17
Newcastle	g	80	60	0
Orange..	r	62	53	0·09
Bathurst.	u	66	52	0·03
13 63	Ea			
Forb's	g	71	46	0
MtVict'ria	c	61	46	0·01
Condob'lu	g	63	57	0
Picton..	b	68	50	0
Carcoar..	g	63	56	0
Wentw'th	g	71	45	0·06
Young...	u	69	58	0·10
Wollgo'ng	c	73	60	0
Hay....	u	65	39	0·09
Moss Vale	b	67	50	0·02
Euston...	.	..		.
Goulburn	b	74	51	0
Wagga...	g	72	59	0·02
Cape Geo.	b	69	60	0
Queanb'n	r	75	53	0
Deniliq'in	g	66	59	0·10
Moruya..	b	71	56	0
Kiandra..	c	70	46	0

Alb'ry	u	73	59	0·13
B'd'lla	b	75	51	0
Cooma	b	71	50	0
Eden	b	69	61	0
Gabo	b	70	60	0

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Fog
o-Overcast
o-Passing snow'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

WIND SCALE. M/s
13-Lt brze
23-Mod. „
34-Fresh „
6-Strg gale
5-Whole „

As 8 30 19 R 75

Curve showing state of Barometer.

Pt Ay Ea CB A Re P M WP Co E Ma Cd Wa Z N PM C B R CT

30·0 ·4 ·2 ·8 ·6

Fine, wind N. Cloudy, wind E. Thunder, wind S. Rain, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

0 30·10 R 61

CL'DY GENERALLY.
SYDNEY c 68 59 Rain 0·00.

W 14 30·08 R 62

1429·96F62 D

14 30·08 F 61

829·99R64

R 69

B. 65 4

C 14 63

PM 14 65

N 3 65

S 12 65

Wa 14 67

CG 28 67

Ma 28 63

E 14 63

Gc 8 68

WP 3 62

0 58

CO

P M

8 60

8 57

Re

18 64

8 63 A

W E S

Barometer risen about 0·06′ in Victoria. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 7.

South Australia: Showery at Cape Borda, and threatening at Adelaide, squally at Robe and Cape Borda, rough sea the latter station; barometers have fallen since yesterday, wind generally W.N.W. to W.; rainfall at Adelaide 0·73, 0·34 at Cape Borda, and 0·18 at Robe. Victoria: Raining at Wilson's Promontory and Portland, showery at Melbourne. 0·24 rain fell at Melbourne, 0·32 at Cape Otway, 0·14 at Portland, and 0·43 at Wilson's Promontory; wind N. to N. to N.N.E., blowing strong at Portland, smooth sea on coast, barometer has fallen about ·16. New South Wales: Cloudy nearly all through the colony, and threatening rain; raining at Wentworth, Euston, Menindie, and Kiandra, showery at Bathurst and Eden. See Weather Map. Light wind generally from N.W. to N.E., barometer has fallen about ·08 since yesterday, smooth sea along the E coast. Queensland: Cloudy at Rockhampton, S.E. wind at Cooktown and Rockhampton, and S.W. at Brisbane while at Cape Moreton, it is from E.S.E.; 0·56 of rain fell at Rockhampton, 0·22 at Brisbane, and 0·37 at Cape Moreton; sea smooth. 3 p.m. Observations.—Victoria, barometers very low, northerly winds: Cape Otway, N., 18, barometer 29 53, gloomy, smooth sea, temperature 65°; Portland, N.N.W., 34, barometers 29·46, squally, with rain, sea smooth, temperature 67°; Wilson's Promontory, N.E., 18, misty rain, sea smooth. New South Wales: Wentworth, N.W., cloudy, temperature 64°; Albury, N., showery, temperature 66°; Forbes, calm, cloudy, temperature 64°; Deniliquin, N., 14, raining, temperature 68°; Eden, N., 14, cloudy, sea smooth, temperature 70°; Moruya, N.E., 14, cloudy, sea smooth, temperature 69°; Sydney, N.E., 14, cloudy, sea smooth, temperature 69°; Port Macquarie, N.N.E., cloudy, sea smooth, temperature 71°; Cape George, N., cloudy, sea smooth, temperature 68°; Newcastle, calm, cloudy, sea smooth; Clarence River, S.E., fine, sea moderate, temperature 72°; barometers falling steadily up to 3 p.m State of Rivers: Murrumbidgee, at Wagga, 1 foot 5 inches above summer level; at Hay, summer level; at Balranald, summer level; Murray, at Albury, 1 foot 9 inches above summer level; at Euston, 2 feet above summer level; Darling, at Wentworth, 4 feet 6 inches above summer level; at Pooncarrie, 1 foot 8 inches above summer level; at Menindie, 4 feet 5 inches above summer level; at Wilcannia, 1 foot 10 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 7 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 7 . . 15 522.
Barometers corrected to 32° Fah and Mean Sea Level.

Stations	W't	M'x	Ma	R'in
Casino..	c	72 58		0·03
Tenterfild	u	65 55		
Moree....	g	80 60		0
Grafton..	b	69 57		0·20
Gl'n Inn's	b	69 45		0
Inverell..	c	71 55		0·07
Bourke ..	u	73 61		0
Narrabri	b	76 57		0·09
Armidale	b	64 44		0·16
Bendem'r	b	72 43		0
Gunned'h	c	83 44		0
Coonam'le	.	....		..
Tamworth	b	79 46		0
Coonab rn	c	75 49		0
P.Macqrie	b	70 57		0·03
Wilcannia	g	72 64		0
Murr'undi	u	71 56		0
C ssilis..	c	75 47		0
Mus'br'ok	b	83 52		0
Dubbo...	u	69 56		0
Menindie	r	72 59		0.43
M idgee .	c	77 54		0·10
Maitland.	b	74 55		0
Hill End.	u	62 46		0·02
Newcastle	g	78 57		0
Orange..	g	64 46		0·01
Bathurst.	p	68 45		0·05
		Ea		
Forb's	b	72 45		0
Mt Vict'ria	u	62 51		0
Condob'lin	.	....		.
Picton..	o	75 48		0
Carcoar..	o	64 51		0
Wentw'th	r	70 60		0·53
Young...	o	66 56		0·20
Wollgo'ng	c	76 60		0
Hay....	u	68 49		0
Moss Vale	b	67 49		0
Euston...	r	66 60		0
Goulburn	g	70 44		0
Wagga...	g	70 60		0
Cape Geo.	c	72 58		0
Queanb'n	c	70 53		0
Deniliq'in	g	67 59		0·02
Moruya..	c	79 60		0
Kiandra..	r	54 20		1·50

Alb'ry	u	71	51	0·26
B'd'lla	g	84	48	0
Cooma	c	75	44	0
Eden	p	70	57	0
Gabo	u	70	50	0

As

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Storm, wind S. Rain, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.

Barometer fallen about 0·19 on S. coast. For notes to 3p.m see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—May 9.

South Australia: Cloudy at Adelaide and Alice Springs; W.S.W. wind and squally at Cape Borda and Robe; W.N.W. at Adelaide, and S.E. at Alice Springs; 0·23 rain fell at Adelaide, 0·25 at Robe, and 0·20 at Port Darwin; rough sea on coast; the barometers are rising fast, having risen about ·30 since 9 p.m. last night. Victoria: Cape Otway, showery; and thunderstorm at Wilson's Promontory, with rough sea; wind between W.S.W. and N.W., blowing very strong at Cape Otway, with a rough sea; 0·24 rain at Melbourne and Cape Otway, and 0·86 at Wilson's Promontory; barometers about commencing to rise again. New South Wales: Fine generally, with the wind between S.W. and N.; blowing a gale from N.W during the night at Murrurundi; raining at Inverell, Queanbeyan, and Albury, and showery at Glen Innes, Moree, and Murrurundi (see weather map); the barometers still falling, and show a fall of ·31 since Saturday; smooth sea generally on E. coast. Queensland: Fine at Brisbane and Cooktown; wind light and from N.E. at Brisbane, and S.E. at Rockhampton and Cooktown; moderate sea at Cape Moreton; the barometer has fallen about ·05 at Brisbane. 3 p.m. Observations.—Victoria: Melbourne, W., 13, passing showers, temperature 60°; Wilson's Promontory, W., 48, squally, with rain, rough sea, temperature 54°; New South Wales: Wentworth, S.W., fine, clear, temperature 64°; Deniliquin, W., 14, cloudy, dull, temperature 67°; Albury, N.W., strong, showery, temperature 64°; Goulburn, W., very strong, fine, temperature 66°; Forbes, W., fine, temperature 72°; Eden, W.S.W., 42, cloudy, light E. sea, temperature 70°; Moruya, W., 42, fine, moderate sea, temperature 75°; Cape George, W., 42, fine, smooth sea, temperature 73°; Sydney, W.N.W., strong, smooth sea, temperature 75°; Newcastle, N.W., fine, smooth sea; Port Macquarie, N.E., 14, fine, smooth sea, temperature 75° It will thus be seen in the weather map that abundant rains have fallen in the south-western districts since Saturday. State of Rivers.—Murrumbidgee: At Wagga, 3 feet above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 3 feet 9 inches above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 4 feet 6 inches above summer level; at Pooncarie, 1 foot 3 inches above summer level; at Menindie, 4 feet 3 inches above summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., MAY 9 1881, with **NOTES** to 3 P.M.

Sydney Observatory.

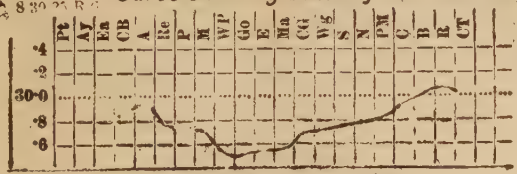
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 9 . . 15 592.
Barometers corrected to 32° Fah. and Mean Sea Level.

Stations.	w't	M'x	M.M	R'in
Casino..	b	82	69	0
Tenterfild	g	72	46	0
Moree....	p	78	69	0·02
Grafton..	u	87	65	0
Gl'n Inn's	p	76	49	0·08
Inverell..	r	74	50	0·05
Bourke ..	b	75	60	0·07
Narrabri	g	75	64	0·13
Armidale	u	65	47	0·19
Bendem'r	u	74	49	0·13
Gunned'h	c	82	45	0.06
Coonamle	b	67	61	0·40
Tamworth	p	72	59	0·15
Coonab rn	b	67	60	0·42
P.Macqrie	g	74	67	0·04
Wilcannia	b	71	59	0·08
Murr'undi	p	71	63	0 10
Cassilis.	b	71	64	0·06
Mus'br'ok	b	78	65	0
Dubbo...	c	72	57	0·68
Menindie	b	80	57	1.00
Mudgee..	u	72	53	0·75
Maitland.	b	77	60	0
Hill End.	b	60	46	2·50
Newcastle	b	73	64	0·01
Orange..	b	61	52	1·70
Bathurst.	b	67	45	0·98
		Ea		
Forb's	b	68	46	1·85
MtVict'ria	b	60	54	0·03
Condob'ln	c	64	55	2·05
Picton..	b	77	52	0
Carcoar..	g	65	55	2·30
Wentw'th	b	75	59	0
Young...	u	67	59	0·48
Wollgo'ng	b	71	63	0
Hay....	b	75	45	0·84
Moss Vale	b	69	54	0·72
Euston...	b	74	55	0·58
Goulburn	b	79	58	0·33
Wagga...	b	79	59	1·73
Cape Geo.	p	76	60	0
Queanb'n	b	74	55	1·56
Deniliq'in	b	70	56	1·02
Moruya..	b	83	56	0
Kiandra..	b	49	20	0·50

Alb'ry	r	72	52	1·08
B'd'lla	b	83	44	0
Cooma	b	74	41	0
Eden	b	70	53	0
Gabo.	b	78	57	0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

1430·00R70

FINE GENERALLY.
SYDNEY b 75 ℃ Rain 0·07.

W 42 29·96 R 58

2829·85F59

28 29·78 F 62

132966R61

WEATHER.
o-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Mist
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
13-Lt brze
23-Mod. ,,
34-Fresh ,,
6-Strg gale
..-Whole ,,

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·194s after
Greenwich M'n Tim
MAG. VAR. 9° 35′ 0″ E

Barometer risen about 0·30 on S.W. coast. For notes to 3 p.m. see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 10.

Western Australia: Fine and calm at Albany, barometer 30·07, temperature 65°, also 0·12 of rain. South Australia: Alice Springs and Eucla, cloudy, wind rather strong from N. to N.W., and W.S.W. at Eucla; rough sea on coast: 0·37 of rain fell at Cape Borda, 0.12 at Robe; barometer has fallen about ·08. Victoria: Fine at Portland, with rather strong breeze between W. and N.; squally at Melbourne, Wilson's Promontory, and Portland; sea rough at Wilson's Promontory and Cape Otway; 0·02 of rain at Melbourne, 0·18 at Cape Otway, 0·09 at Portland, and 0·10 at Wilson's Promontory. New South Wales: Fine, except at Albury; wind very light, and between S.W. and N.W.; smooth sea along the east coast, barometer has risen about 0·31 since yesterday. Queensland: Fine at Rockhampton and Brisbane; wind S. at the former, and fresh from S.W. at the latter station; smooth sea at Cape Moreton; the barometer has risen ·13 at Brisbane. 3 p.m. Observations.—Victoria: Barometers falling. Melbourne, cloudy, N.N.W., 28, gloomy, threatening, temperature ·58; Portland, N.W., 40, squally with rain, smooth sea temperature 60; Cape Otway, N.N.W., 56, squally with rain, high sea, temperature ·58; Wilson's Promontory, N.W., 34, squally, rough sea, temperature ·63. New South Wales: Albury, W., light, fine, temperature ·61; Forbes, calm, fine, clear, temperature ·75; Moruya, N.W. 20 fine, smooth sea, temperature ·72; Sydney, N.W., 1, fine, clear, smooth sea, temperature ·69; Port Macquarie, N.E., 14, fine, smooth sea, temperature ·72; Goulburn, W., fine, temperature ·64; Eden, N.E., 14, fine, smooth sea, temperature ·68; Cape George, W., fresh, fine, smooth sea, temperature ·69; Newcastle, N.W., fine, smooth sea. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 9 inches above summer level; at Hay, 1 foot above summer level; at Cabanald, 2 feet above summer level. Murray: At Albury, 5 feet 6 inches above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 4 feet 6 inches above summer level; at Pooncarie, 1 foot 10 inches above summer level; at Menindie, 4 feet 2 inches above summer level; at Wilcannia, 10 inches above summer level.

WEATHER MAP.

COMPILED from Telegrams for 9 A.M., MAY 10 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 10 . 15·592.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.D	R'in
Casino..	b	87	55	0
Tenterfild	b	69	42	0
Moree....	b	70	54	0
Grafton..	b	78	57	0
Gl'n Inn's	b	74	38	0
Inverell..	b	73	43	0
Bourke ..	b	73	58	0
Narrabri	b	78	51	0
Armidale	b	68	42	0
Bendem'r	b	72	47	0
Gunned'h	b	89	37	0
Coonam'le	b	73	49	0
Tamworth	b	77	39	0·05
Coonab rn	b	74	41	0
P.Macqrie	b	80	57	0
Wilcannia	b	68	55	0
Murr'undi	b	71	51	0.05
Cassilis..	b	70	47	0
Mus'br'ok	b	78	51	0
Dubbo...	b	72	56	0
Menindie	b	73	51	0
Mudgee .	b	76	46	0
Maitland.	b	76	58	0
Hill End.	b	63	40	0
Newcastle	b	80	56	0
Orange..	b	61	41	0
Bathurst.	b	66	40	0
18 64		Ea		
Forb's	b	72	50	0
Mt Vict'ria	b	58	44	0
Condob'lo	.	.	..	..
Picton..	b	75	49	0
Carcoar..	b	69	46	0
Wentw'th	b	69	51	0
Young...	b	69	45	0
Wollgo'ng	b	73	59	0
Hay....	b	71	44	0
Moss Vale	b	65	46	0
Euston...	b	69		0
Goulburn	b	66	41	0
Wagga...	b	65	43	
Cape Geo.	b	73	53	0
Queanb'n	b	70	47	0·04
Deniliq'in	b	66	48	0
Moruya..	b	78	48	0
Kiandra..	b	52	25	0·50

Alb'ry	g	6	39	0·08
B'd'lla	b	80	38	0
Cooma	b	64	42	0
Eden	b	72	50	0
Gabo	b	76	65	0

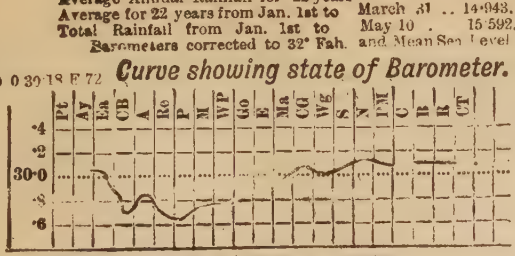
WEATHER.
o-Blue sky.
e-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
t-Threatening

WIND SCALE.
13-Li't brze
23-Mod. „
34-Fresh „
-Strg gale
65-Whole „

As

0 30·18 E 72

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

1430·11R66

FINE GENERALLY.
SYDNEY b 76 56 Rain 0·00.

W 28 30·11 R 59

2830·06R55

0 30·04 R 50

232989F59

13—60
48 58
23 62
48 61
56 59
31 61
23 75
14 64
7 63
0 60
14 61
42 60
42 59
14 56
23 61

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·198 s m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 50″ E

Barometer risen about 0.31 in N.S.W. For note to 3 p.m. see unde shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 11.

Western Australia: Fine weather, with light breeze from N.E. at Perth, and from N.W. at Albany; at Perth temperature 70°, and at Albany temperature 61°; smooth sea on coast. South Australia: Fine at Eucla with N. wind; wind between S.S.W. and W. at the other stations, blowing fresh. rough sea at Cape Borda; 0·10 of rainfall at Adelaide, 0·20 at Cape Borda, and 0·02 at Robe; barometer has risen about 14. Victoria: Melbourne cloudy, and showery at Portland, Wilson's Promontory, and Cape Otway; 0·48 of rain at Cape Otway, 0·55 at Portland, and 1·24 at Wilson's Promontory; wind W.S.W to W.N.W., blowing very strong and squally; high sea at Cape Otway and Wilson's Promontory; barometer has risen about ·21. New South Wales: Fine generally; cold at Moruya, Wilcannia, and Carcour; wind between S.W. and N., and very light; smooth sea along E. coast. Queensland: Fine at Brisbane and Rockhampton, with fresh S.W. breeze at the former, and S.E. at the latter station; smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, W., 18, cloudy, squally, temperature 56°; Cape Otway, W., 48, cloudy, high sea, temperature 54°; Wilson's Promontory, W., 65, squally, high sea, temperature 54°. New South Wales: Wentworth, S.W., cloudy, temperature 60; Deniliquin, S.W., fine, temperature 62; Albury, W., light, cloudy, temperature 61°; Goulburn, W., strong, fine, temperature 64°; Forbes, calm, fine, temperature 76; Eden, E.N.E., strong fine, smooth sea, temperature 64°; Sydney, W., light, fine, smooth sea, temperature 73°; Cape George, W., 42, fine, smooth sea, temperature 71°; Port Macquarie, N.E., 23, cloudy, smooth sea, temperature 71°; Newcastle, N.W., strong, smooth sea. State of Rivers.—Murrumbidgee: At Wagga, 7 feet 3 inches above summer level. Murray: At Albury, 10 feet 9 inches above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 4 feet 5 inches above summer level; at Pooncarie, 1 foot 10 inches above summer level; at Menindie, 3 feet 11 inches above summer level; at Wilcannia, 10 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 11 1881, with Norms to 3 P.M.

Sydney Observatory.

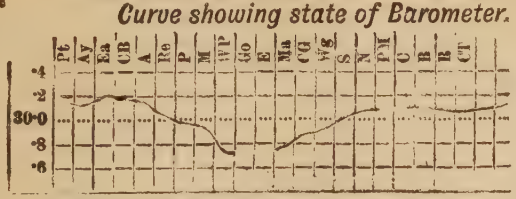
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 11 . 15·592.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	M.D	R'in
Casino..	b	87 51		0
Tenterfild.	g	73 44		0
Moree....	b	84 56		0
Grafton..	g	82 51		0
Gl'n Inn's	b	79 38		0
Inverell..	b	73 44		0
Bourke ..	b	77 58		0
Narrabri	g	76 52		0
Armidale	b	69 43		0
Bendem'r	b	71 42		0
Gunned'h	b	86 37		0
Coonam'le	b	72 47		0
Tamworth	.	..	..	
Coonab rn	b	73 40		0
P.Macqrie	b	74 54		0
Wilcannia	b	94 57		0
Murr'undi	g	69 56		0
Cossilis..	b	77 47		0
Mus'br'ok	b	78 51		0
Dubbo...	b	68 51		0
Menindie	g	73 59		0
Mudgee..	b	76 49		0
Maitland.	b	73 56		0
Hill End.	b	59 41		0
Newcastle	b	75 56		0
Orange..	b	64 51		0
Bathurst.	b	64 44		0
8 67		Ea		
Forb's	b	76 46		0
MtVict'ria	c	51 43		0
Condob'ln	.	..	..	..
Picton..	.	..	..	.
Carcoar..	g	60 49		0
Wentw'th	b	75 49		0
Young...	b	65 50		0
Wollgo'ng	b	78 54		0
Hay...	.	..	..	..
Moss Vale	.	..	..	..
Euston...	b	75 47		0
Goulburn	.	..	..	
Wagga...	b	67 49		
Cape Geo.	b	74 55		0
Queanb'n	.	..	..	.
Deniliq'in	b	69 47		0
Moruya..	c	50 55		0
Kiandra..	.	..	..	..

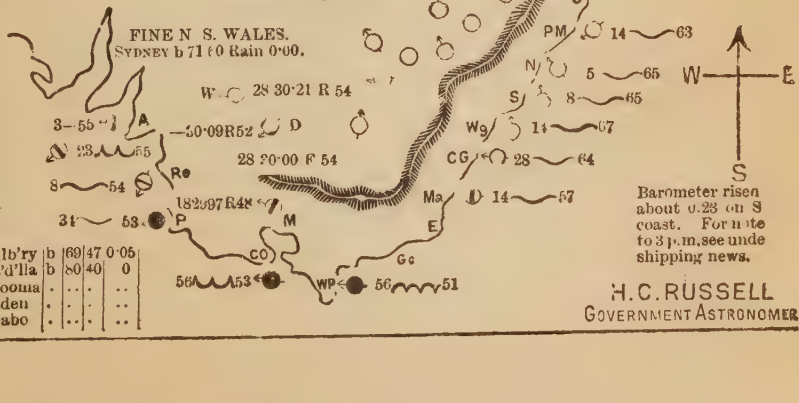
Alb'ry	b	69	47	0·05
B'd'lla	b	80	40	0
Cooma	.	..	.	..
Eden	.	..	.	..
Gabo	.	..	.	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

1430·09E66



WEATHER.
e-Blue sky.
c-Scatter'd cloud
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Mist
n-Frost
o-Overcast
p-Passing shower
q-Squally
r-Rain
t-Thunder
w-Threatening

WIND SCALE.
M'e
13-Li't brze
23-Mod. "
34-Fresh "
46-Strg gale
55-Whole "

TIME BALL
Drops at 1 p.m. M.T. or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′·50 E

Barometer risen about 0.23 on S coast. For note to 3 p.m. see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—May 12.

Western Australia: Cloudy; raining lightly at Perth—0·10 of rain recorded up to 9 a.m.; Perth temperature 71°, and Albany temperature 68°, with moderate sea on coast; wind W.N.W. and blowing strong at Perth. South Australia: Cloudy at Robe and Cape Borda, wind from N. and W.N.W.; blowing fresh at Robe and Eucla—0·14 of rain fell at Robe, rough sea at Cape Borda; at Eucla and Cape Borda the barometer has fallen slightly. Victoria: Cloudy—showery at Wilson's Promontory; Cape Otway and Portland, wind W.N.W. to N.; blowing strong at Wilson's Promontory, with a high sea; 0·15 rain fell at Wilson's Promontory and Cape Otway, and 0·11 at Portland; barometer has risen about ·04. New South Wales: Fine throughout the colony, with smooth sea along E. coast, wind S.S.W. to N.W.; misty at Carcoar, Bedalla, and Cooma; barometer has risen about ·21 since yesterday. Queensland: Cloudy at Cooktown, Rockhampton, and Cape Moreton; raining lightly at Rockhampton, with S.E. wind, and S.W. at Brisbane; smooth sea; at Cape Moreton barometer has risen about ·14. 3 p.m. Observations.—Victoria. Barometers falling slowly; Cape Otway, N.N.W., 23, clear, moderate sea, temperature 61°; Melbourne, N., 18, cloudy, temperature 63°; Wilson's Promontory, W., 40, squally, misty, heavy sea, temperature 57°. New South Wales: Wentworth, N.W., fine clear, temperature 60°; Albury, W., light, cloudy, temperature 60°; Moruya, N.E., 28, fine, smooth sea, temperature 66°; Sydney, N.W., light, smooth sea, temperature 63°; Port Macquarie, S.S.E., 42, fine, smooth sea, temperature 69°; Deniliquin, N., fine, temperature 65°; Goulburn, calm, fine, temperature 59°; Eden, S.W., 14, fine, smooth sea, temperature 66°; Cape George, calm, fine, smooth sea, temperature 62°; Newcastle, E., fine, smooth sea. State of Rivers.—Murrumbidgee: At Wagga, 7 feet 9 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 10 feet 6 inches above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 4 feet 4 inches above summer level; at Pooncarie, 1 foot 10 inches above summer level; at Menindie, 3 feet 9 inches above summer level; at Wilcannia, 9 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 12 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 12 . 15·592
Barometers corrected to 32° Fah. and Mean Sea Level.

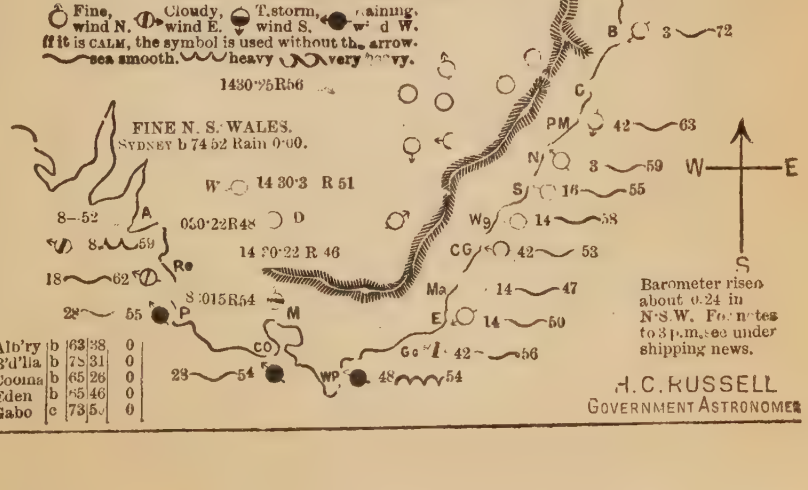
Stations.	w't	M'x	Min	R'in
Casino..	b	83 53		0
Tenterfild	b	69 44		0
Moree....	b	79 53		0
Grafton..	b	74 51		0
Gl'n Inn's	b	64 40		0
Inverell..	b	73 43		0
Bourke ..	b	77 50		0
Narrabri	b	77 60		0
Armidale	b	68 44		0
Bendem'r	b	67 41		0
Gunned'h	b	83 34		0
Coonam'le	b	71 45		0
Tamworth	b	74 30		0
Coonab rn	b	75 43		0
P.Macqrie	b	75 56		0
Wilcannia	b	66 49		0
Murr'undi	b	69 48		0
Cassilis..	b	70 35		0
Mus'br'ok	b	78 48		0
Dubbo...	b	69 49		0
Menindie	b	69 46		0
Mudgee .	b	78 42		0
Maitland.	b	74 53		0
Hill End.	b	69 34		0
Newcastle	n	77 53		0
Orange..	b	60 40		0
Bathurst.	b	63 35		0
23 65		Ea		
Forb's	b	69 41		0
MtVict'ria	b	52 38		0
Condob'ln		..		
Picton..	b	73 43		0
Carcoar..	n	64 40		0
Wentw'th	b	66 41		0
Young...	b	64 40		0
Wollgo'ng	b	78 51		0
Hay....	b	65 30		0
Moss Vale	b	63 39		0
Euston...	b	63 35		0
Goulburn	b	65 37		0
Wagga...	b	62 39		
Cape Geo.	b	73 46		0
Queanb'n	b	64 36		0
Deniliq'in	b	61 40		0
Moruya..	b	78 44		0
Kiandra..	b	60 20		0

Alb'ry	b	63	38	0
B'd'lla	b	78	31	0
Cooma	b	65	26	0
Eden	b	65	46	0
Gabo	c	73	5[illegible]	0

As

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 13.

Western Australia: Overcast at Perth, with strong S.S.W. wind blowing; temperature 71°; 0·17 of rain recorded at 9 a.m. South Australia: Fine at Port Darwin, Daly Waters, and Alice Springs, with light S.E. breeze; at the other stations it is between W. and N., blowing strong at Cape Borda and Robe, with rough sea. Victoria: Cloudy at Melbourne and Wilson's Promontory, with strong wind and squally; boisterous at Cape Otway; 0·10 of rain at Wilson's Promontory, moderate sea at Cape Otway; barometer falling at Cape Otway and Portland, and almost stationary at Melbourne and Wilson's Promontory. New South Wales: Fine generally, wind light and variable, smooth sea on E. Coast. Frosts at Armidale, Bendemeer, Coonabarabran, Cassilis, Bathurst, Carcoar, Moss Vale, Goulburn, Kiandra, and Bodalla; foggy at Bathurst, Albury, and Cooma. The barometers on E. Coast have risen about ·08", and falling N. W and W at Wentworth and Bourke, showing that a general fall is about to take place, coming from the westward. Queensland: Cloudy at Cooktown, and raining lightly at Rockhampton, with S.E. breeze, and from the S.W. at Brisbane; 0·29 of rain at Rockhampton, and 0·13 at Cooktown; smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: barometers falling slowly, Melbourne, N., 23, squally, temperature 63°; Cape Otway, N., 56, boisterous, temperature 63°; Portland, N.N.W., 48, fine, sea smooth, temperature 65°; Wilson's Promontory, N.N.E., 13, gloomy squally, sea smooth, temperature 58°. New South Wales: Deniliquin, N.N.E., 14, fine, temperature 61°; Albury, N., light, fine, clear, temperature 60°; Goulburn, W., fine, temperature 61°; Forbes, calm, fine, temperature 42°; Eden, N.E., 14, fine, smooth sea, temperature 63°; Moruya, N.E., 42, fine, smooth sea, temperature 67°; Cape George, N., 42, fine, smooth sea, temperature 67°; Sydney, N.E., light, fine, smooth sea, temperature 65°; Newcastle, N.N.E., fine, smooth sea; Port Macquarie, N.E., 42, fine, smooth sea, temperature 69. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 6 inches above summer level; at Hay, summer level; at Balranald, summer level. Murray: At Albury, 7 feet 3 inches above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 4 feet above summer level; at Pooncarie, 1 foot 10 inches above summer level; at Menindie, 3 feet 8 inches above summer level; at Wilcannia, 8 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 13 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 13 . 15·595.
Barometers corrected to 32° Fah. [illegible] above Sea Level.

Stations.	W't	M'x	M'n	R'in
Casino..	b	81	48	0
Tenterfild	b	69	40	0
Moree....	b	84	51	0
Grafton..	b	83	51	0
Gl'n Inn's	b	74	38	0
Inverell..	b	73	39	0
Bourke ..	b	70	48	0
Narrabri	b	73	44	0
Armidale	n	62	35	0
Bendem'r	n	68	33	0
Gunned'h	b	81	27	0
Coonam'le	b	64	38	0
Tamworth	b	75	29	0
Coonab rn	n	71	29	0
P.Macqrie	b	68	51	0
Wilcannia	b	64	46	0
Murr'undi	b	66	42	0
C ssilis..	n	65	31	0
Mus'br'ok	b	70	35	0
Dubbo...	b	75	42	0
Menindie	b	64	44	0
Mudgee .	b	73	37	0
Maitland.	b	66	41	0
Hill End.	b	60	28	0
Newcastle	b	68	46	0
Orange..	b	52	45	0
Bathurst.	n	60	27	0
18 66		Ea		
Forb's	b	79	42	0
MtVict'ria	b	54	39	0
Condob'lin	b	54	45	0
Picton..	n	73	32	0
Carcoar..	n	55	36	0
Wentw'th	b	68	44	0
Young...	b	65	40	0
Wollgo'ng	b	71	40	0
Hay....	b	69	32	0
Moss Vale	n	57	35	0
Euston...	b	71	33	0
Goulburn	n	61	27	0
Wagga...	b	60	37	
Cape Geo.	b	66	51	0
Queanb'n	c	64	31	0
Deniliq'in	b	65	41	0
Moruya..	b	74	43	0
Kiandra..	n	50	20	0
Alb'ry	f	63	33	0
B'd'l'a	n	75	20	0
Cooma	c	66	23	0
Eden	b	65	46	0
Gabo	b	68	51	0

WEATHER.
b-Blue sky.
e-Scatter'd clouds
d-Drizzling rain.
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Fron.
o-Overcast
p-Passing showers
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 16.

South Australia: Weather generally fine, with light wind from N.E. to N.N.W., barometers have fallen about ·06; Port Augusta, barometer 30·15; and Cape Northumberland, 30·05, temperature 56°; 0.14 of rain at Cape Borda, 0·51 at Robe, 0·23 at Cape Northumberland, and over one inch at Beachport; light sea at Robe. Victoria: N.N.W. to N.N.E. wind, and blowing fresh; cloudy weather at Cape Otway, with moderate sea; 0·10 of rain at Portland, the barometers have risen about ·03. New South Wales: Cloudy generally, wind chiefly N.E., N., and N.W.; ten stations N. and N.W. of Sydney have recorded rain (see weather map); raining this morning at Inverell, Bendemeer, Tamworth, Cassilis; showery at Moree and Mount Victoria; barometer at the southern stations shows a rise of about ·05; smooth sea all down E. coast; frosty at Cooma; foggy at Bourke, Albury, and Cooma. Queensland: Showery weather at Cooktown, with rather strong E. wind; fine at Brisbane, with strong S. breeze; at Brisbane the barometer has risen about ·09; smooth sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, N., 13, cloudy, temperature 56°; Cape Otway, N., 13, cloudy, moderate sea, temperature 65°; Portland, N.N.W., 28, fine, smooth sea, temperature 66°; Wilson's Promontory, N.N.W., 13, cloudy, smooth sea, temperature 67°. New South Wales: Albury, N.W., light, fine, clear, temperature 65°; Forbes, calm, fine, clear, temperature 72°; Moruya, N.E., 28, fine, moderate sea, temperature 70°; Sydney, W.N.W. light, cloudy, smooth sea, temperature 63°; Deniliquin, N., fine, temperature 70°; Goulburn, N.W., fine, temperature 64°; Eden, E., 14, fine, smooth sea, temperature 65°; Cape George, N., 14, fine, smooth sea, temperature 72°; Newcastle, S., light, dull, smooth sea; Clarence River, S.E., dull, smooth sea, temperature 74°. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 3 inches above summer level; at Hay, belowsummer level; Balranald, summer level. Murray: At Albury, 5 feet above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 3 feet 9 inches above summer level; at Pooncarie, 1 foot 8 inches above summer level; at Menindie, 3 feet above summer level; at Wilannia, 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 16 1881, with Norms to 3 P.M.

Sydney Observatory.

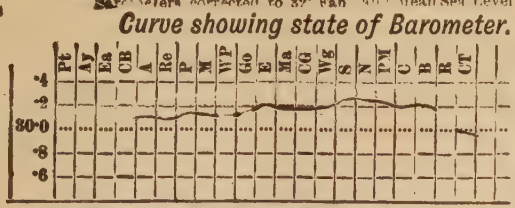
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 16 . 15·625.
Barometers corrected to 32° Fah and Mean Sea Level

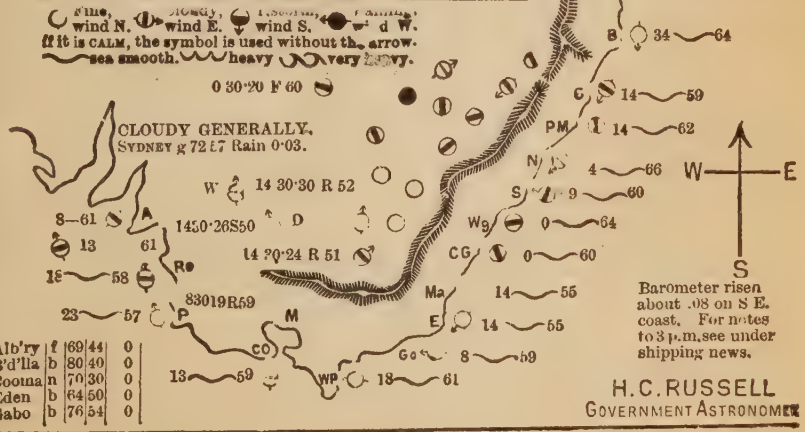
Stations.	w't	M'x	M.n	R'in
Casino..	b	81	52	0
Tenterfild.	g	69	46	0
Moree....	p	88	64	0·11
Grafton..	b	81	56	0
Gl'n Inn's	f	74	40	0
Inverell..	r	76	43	0·05
Bourke ..	f	74	57	0·01
Narrabri	u	77	59	0·14
Armidale	u	64	36	0
Bendem'r	r	77	38	0
Gunned'h	r	85	49	0·23
Coonam'le	c	62	53	0·23
Tamworth	r	81	52	0·75
Coonab rn	u	64	53	0·82
P.Macqrie	g	75	58	0
Wilcannia	.	71	52	0
Murr'undi	g	68	50	0
Cassilis..	r	71	55	0·36
Mus'br'ok	u	77	53	0
Dubbo...	u	69	43	0
Menindie	.	79	51	0
Mudgee..	u	81	46	0·12
Maitland.	u	74	49	0
Hill End.	c	63	39	0
Newcastle	g	79	61	0
Orange..	r	60	54	0
Bathurst.	u	70	37	0·09
18 60		Ea		
Forb's	b	71	50	0
MtVict'ria	p	61	50	0·10
Condob'ln	.	..	..	..
Picton..	g	72	49	0
Carcoar..	g	59	41	0
Wentw'th	b	71	45	0
Young...	b	67	47	0
Wollgo'ng	c	77	49	0
Hay....	b	69	34	0
Moss Vale	b	67	43	0
Euston...	b	80	40	0
Goulburn	b	73	36	0
Wagga...	b	69	46	0
Cape Geo.	b	76	56	0
Queanb'n	b	76	40	0
Deniliq'in	b	69	40	0
Moruya..	b	76	52	0
Kiandra..	.	..	..	..

Alb'ry	f	69	44	0
B'd'lla	b	80	40	0
Cooma	n	70	30	0
Eden	b	64	50	0
Gabo	b	76	54	0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Rain, wind S. Fog, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WEATHER.
a-Blue sky
e-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
s-Thunder
u-Threatening

WIND SCALE. Mi's
13-Li't brze
23-Mod. ,,
34-Fresh ,,
43-Strg gale
55-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 35′ 50″ E

Barometer risen about .08 on S E. coast. For notes to 3 p.m. see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 18.

Western Australia: Fine weather at Perth and Albany, with smooth sea, rather strong breeze from N.E. at Perth, and from N.W. light at Albany; Perth, barometer 30.34, temperature 74°, and at Albany 30.35, temperature 59°. South Australia: Cloudy generally; barometer high and still rising; foggy, rain on coast, the heaviest rainfall in the colony was 0·73 at Southport, and 0·35 at Port Darwin; smooth sea on coast. Victoria: Cloudy at Wilson's Promontory and Cape Otway; wind generally between S. and W.S.W., except at Melbourne where it is from S.E.; 0.15 of rain at Melbourne and Wilson's Promontory; moderate sea at Cape Otway; barometers have risen about 0·8. New South Wales: Cloudy generally to the east of range, with the wind chiefly between S. and E. Raining at Sydney, Wollongong, Mossvale, Wagga Wagga, Kiandra, and Cooma. Showery at Queanbeyan, Moruya, and Cape St. George. See weather map. Moderate sea at Gabo Island, and smooth all down E. coast. The barometer is high and rising fast. Queensland: Fine, fresh breeze from S.W. at Brisbane, and S.E. at Rockhampton, 0·17 of rain fell at Cooktown, and 0·29 Cape Moreton; smooth sea at Cape Moreton. 3 p.m. Observations. — Victoria: Barometers high and steady. Melbourne, S.S.W., fine, temperature 55°; Portland, W.S.W., 18, cloudy, smooth sea, temperature 57°; Cape Otway, W., 3, cloudy, smooth sea, temperature 54°; Wilson's Promontory, S.S.W., 8, cloudy, sea smooth, temperature 53°. New South Wales: Wentworth, S.E., fine, clear, temperature 59°, Deniliquin, calm, fine, temperature 65°; Albury, calm, fine, clear, temperature 65°; Goulburn, calm, dull, temperature 60°; Forbes, calm, cloudy, temperature 65°; Eden, S.W., 14, dull, smooth sea, temperature 60°; Moruya, W., 14, dull, smooth sea, temperature 55°; Cape George, S., 42, cloudy, moderate sea, temperature 60°; Sydney, S.S.W., fresh, dull, showery, cold, little sea, temperature 59°; Newcastle, S., stormy, moderate sea; Port Macquarie, S., 28, fine, smooth sea, temperature 70°; Clarence River, S.E., 14, cloudy, smooth sea, temperature 73°; State of Rivers.—Murrumbidgee: At Wagga, 3 feet 8 inches above summer level. Murray: At Albury, 4 feet 7 inches above summer level; at Euston, 2 feet above summer level. Darling: At Wentworth, 3 feet 8 inches above summer level; at Pooncarie, 1 foot 8 inches above summer level; at Menindie, 2 feet 3 inches above summer level; at Wilcannia, 2 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 18 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 22 years from Jan. 1st to March 31 .. 14·943.
Total Rainfall from Jan. 1st to May 18 . 15·770.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.I	R'in
Casino..	b	79	50	0
Tenterfild	f	68	46	0
Moree....	c	82	59	0
Grafton..	f	80	52	0
Gl'n Inn's	b	72	45	0
Inverell..	b	72	46	0
Bourke ..	c	72	59	0
Narrabri	c	74	56	0
Armidale	b	63	36	0
Bendem'r	b	69	38	0
Gunned'h	c	83	40	0
Coonam'le	b	70	50	0
Tamworth	b	77	38	0
Coonab rn	b	76	46	0
P.Macqrie	b	72	56	0
Wilcannia	u	70	56	0
Murr'undi	c	67	46	0
Cassilis..	b	70	48	0
Mus'br'ok	g	75	43	0
Dubbo...	b	72	44	0
Menindie	u	77	56	0
Mudgee..	b	80	45	0
Maitland.	u	66	54	0
Hill End.	b	62	40	0
Newcastle	g	79	53	0.03
Orange..	b	62	54	0
Bathurst.	b	69	40	0
0 58		Ea		
Forb's,	b	68	53	0
Mt Vict'ria	u	61	49	0
Condob'ln	b	60	41	0
Picton..	g	76	45	0
Carcoar..	c	60	44	0
Wentw'th	b	68	47	0·06
Young...	c	67	52	0
Wollgo'ng	r	70	55	0·20
Hay....	b	78	40	0·05
Moss Vale	r	66	49	0
Euston...	b	71	47	0
Goulburn	g	69	40	0
Wagga...	r	69	52	0
Cape Geo.	p	74	55	0·14
Queanb'n	p	72	47	0·20
Deniliq'in	b	71	44	0·03
Moruya..	p	74	53	0·32
Kiandra..	r	48	15	0

Alb'ry	b	71	49	0·10
B'd'lla	r	83	45	0·23
Cooma	r	70	36	0·12
Eden	u	71	56	0·01
Gabo	g	77	55	0·01

As 8 30 35 R 52

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

0 30·22 R 61

CLOUDY GENERALLY
SYDNEY r 69·57 Rain 0·16.

W 28 30·47 R 51

0—54 A 1450·34R50 D

8 5 14 20·31 R 53

Re

8—52

83043R54

8—49 P M

CO

3—49 WP 8—49

Go 23—56

E 28—56

Ma 28—73

CG 42—54

Wg 28—65

S 12—60

N 12—64

PM 14—61

C 28—60

B 18—65

R — 69

WEATHER.
o-Blue sky.
e-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing showers
q-Squally
r-Rain
t-Thunder
u-Threatening

M'le WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
45-Strg gale ,,
55-Whole ,,

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Tim
MAG. VAR. 9° 25′ 30″ E

W — E
S

Barometer risen about ·21 on S.E. coast. For notes to 3 p.m. see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from **Telegrams** for 9 A.M., MAY 20 **1881**, with **Notes** to 3 P.M.

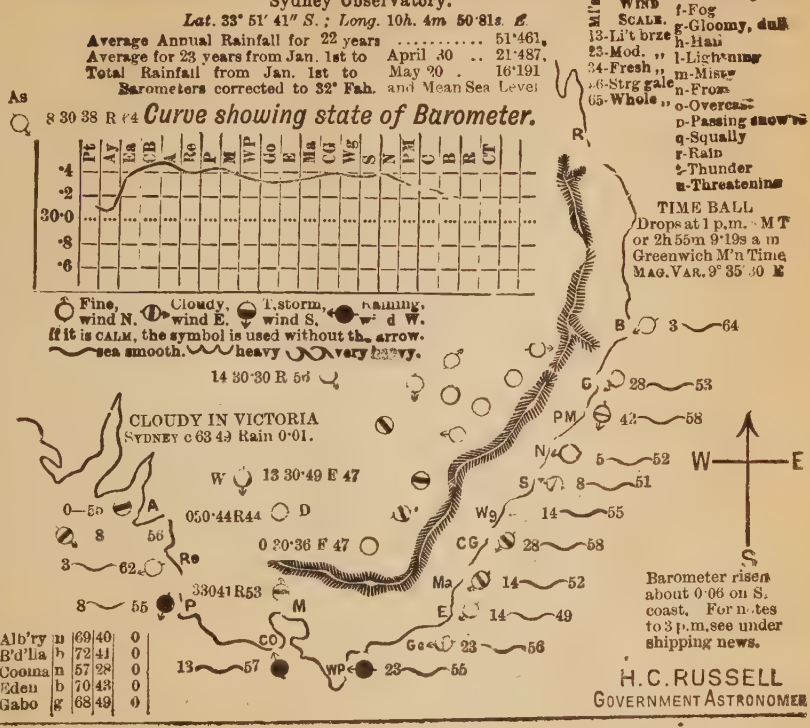
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 23 years from Jan. 1st to April 30 .. 21·487.
Total Rainfall from Jan. 1st to May 20 . 16·191
Barometers corrected to 32° **Fah.** and Mean Sea Level

Stations.	w't	M'x	Min	R'in
asino..	c	77	44	0
enterfield	n	66	35	0
loree....	b	85	51	0
rafton..	b	78	53	0
ll'n Inn's	b	70	35	0
verell..	b	[illegible]	2 37	0
ourke ..	b	71	54	0
arrabri	b	71	49	0
rmidale	n	61	33	0
endem'r	n	66	28	0
unned'h	b	80	29	0
oonam'le	b	68	42	0
amworth	b	74	29	0
oonab rn	b	67	32	0
.Macqrie	c	68	53	0
Vilcannia	b	61	41	0
urr'undi	b	60	38	0
assilis..	b	63	34	0
us'br'ok	b	65	36	0
ubbo...	b	72	45	0
enindie	b	64	49	0
udgee .	n	74	37	0
aitland.	b	60	42	0
ill End.	b	58	33	0
ewcastle	b	79	47	0
range..	b	62	36	0
athurst.		63	33	0
13 57	Ea			
Forb's	b	67	45	0
ltVict'ria	b	61	42	0
ondob'ln	.	..	..	..
ncton..	o	64	35	0
arcoar..	n	58	40	0
ventw'th	b	64	39	0
oung...	b	63	41	0
ollgo'ng	b	69	41	0
ay....	b	61	31	0
oss Vale	n	58	37	0
uston...	b	64	33	0
oulburn	g	65	32	0
agga...	f	62	40	0
ape Geo.	u	66	50	0·09
ueanb'n	c	65	40	0
eniliq'in	b	67	36	0
oruya..	g	70	48	0
iandra..	c	40	24	0

Alb'ry	n	69	40	0
B'd'lla	b	72	41	0
Cooma	n	57	28	0
Eden	b	70	43	0
Gabo	g	68	49	0



H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 21 1881, with NOTES to 3 P.M.

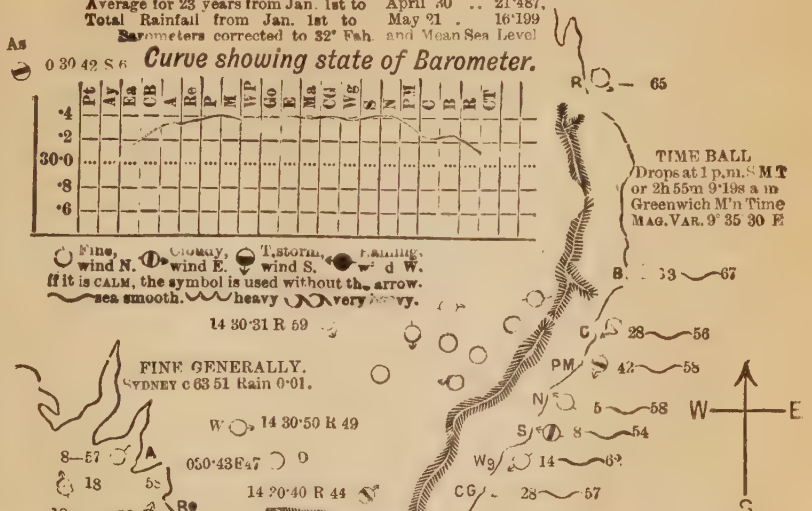
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 23 years from Jan. 1st to April 30 .. 21·487.
Total Rainfall from Jan. 1st to May 21 . 16·199

Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	M'n	R'in
Casino..	b	74	47	0
Tenterfild.	b	68	39	0
Moree....	b	82	51	0
Grafton..	b	75	57	0
Gl'n Inn's	b	64	37	0
Inverell..	n	60	35	0
Bourke ..	b	71	51	0
Narrabri	b	69	48	0
Armidale	n	58	32	0
Bendem'r	b	62	29	0
Gunned'h	o	72	29	0
Coonam'le	b	69	39	0
Tamworth	b	75	29	0
Coonab rn	n	69	29	0
P.Macqrie	c	67	51	0
Wilcannia	b	61	42	0
Murr'undi	b	62	38	0
Cassilis..	u	65	36	0
Mus'br'ok	b	66	40	0
Dubbo...	b	65	42	0
Menindie	b	55	49	0
Mudgee ..	n	76	41	0
Maitland.	b	65	47	0
Hill End.	b	57	36	0
Newcastle	b	82	46	0
Orange..	b	59	37	0
Bathurst.	b	66	32	0
18 63		Ea		
Forb's	b	68	48	0
Mt Vict'ria	b	55	41	0
Condob'ln	b	56	45	0
Picton..	b	63	38	0
Carcoar..	b	56	42	0
Wentw'th	b	67	32	0
Young...	b	64	44	0
Wollgo'ng	b	69	43	0
Hay....	b	61	36	0
Moss Vale	f	57	37	0
Euston...	b	73	35	0
Goulburn	f	65	40	0
Wagga...	b	58	39	0
Cape Geo.	b	64	54	0
Queanb'n	b	65	38	0
Deniliq'in	b	65	38	0
Moruya..	b	68	48	0
Kiandra..	b	70	40	0
Alb'ry	f	63	36	0
B'd'lla	b	74	37	0
Cooma	n	64	27	0
Eden	b	63	49	0
Gabo	b	64	55	0·13



H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

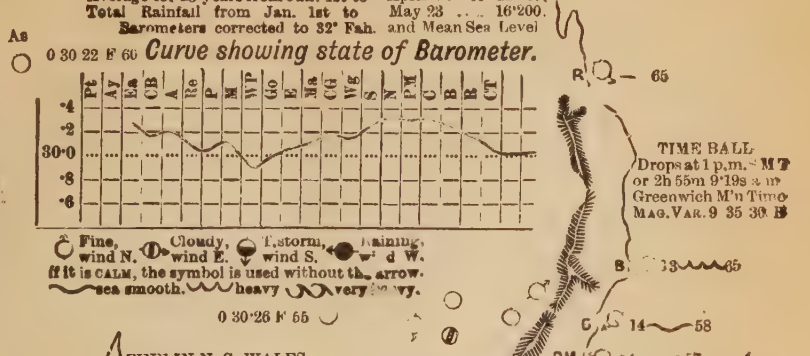
COMPILED from **Telegrams** for 9 A.M., MAY 23 1881, with **Notes** to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 23 years from Jan. 1st to April 30 .. 21·487.
Total Rainfall from Jan. 1st to May 23 ... 16·200.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	M.n	R'in
asino..	b	75	49	0·06
enterfild	b	64	42	0
oree....	b	84	54	0
rafton..	b	73	52	0·03
ll'n Inn's	b	67	47	0
nverell..	b	64	47	0
ourke ..	b	72	49	0
arrabri	b	75	48	0
rmidale	u	59	34	0
endem'r	b	67	32	0
unned'h	b	71	34	0
oonam'le	b	71	40	0
amworth	b	77	37	0
oonab rn	b	71	35	0
.Macqrie	b	69	52	0
Vilcannia	b	66	45	0
urr'undi	b	64	40	0
assulis..	b	66	33	0
lus'br'ok	b	70	40	0
ubbo...	c	66	43	0
enindie	b	72	48	0
udgee..	b	77	38	0
laitland.	c	66	48	0
ill End.	b	57	34	0
ewcastle	b	71	52	0
range..	c	56	45	0
atburst.	f	61	35	0
13 60		Ea		
Forb's	c	69	49	0
tVict'ria	u	56	45	0
ondob'ln	g	59	45	0
icton..	g	64	39	0
arcoar..	b	5[illegible]	42	0
entw'th	b	68	49	0
oung...	b	66	47	0
Vollgo'ng	c	72	54	0
ay...	b	70	35	0
loss Vale	u	58	39	0
uston...	b	67	48	0
oulburn	g	73	41	0
Vagga...	b	65	40	0
ape Geo.	c	67	55	0
ueanb'n	b	83	41	0
eniliq'in	b	68	38	0
loruya..	g	71	59	0
iandra..	b	70	36	0
Alb'ry	b	68	37	0
B'd'lla	g	76	31	0
Cooma	c	65	41	0
Eden	u	64	59	0
Gabo	b	68	56	0·13



Barometer risen about 0·23 on E coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 24.

ria : Showery at Portland and cloudy and dull at Wilson's .tory ; strong wind from W.N.W. at Portland and 0 15 of arometers have fallen about 0·16 ; moderate sea at Wilromontory. New South Wales : Fine generally and calm. rain at any of the stations ; a general rise of about ·10 in ometer took place since yesterday ; wind on coast W. and with a smooth sea ; frosty at Armidale, and foggy at st and Kiandra. Queensland : Cloudy at Rockhampton owery at Cooktown with S.E. wind, and fine at Cape n, with very light breeze from the E. and moderate sea ; at Cooktown 0·22, and Cape Moreton 0·15 of an inch. f Rivers.—Murrumbidgee, at Hay, 4 feet 6 inches above r level. Murray, at Albury, 3 feet 9 inches above summer at Euston, 4 foot above summer level.

ations.	w'th	M'x	Min	R'in
ino..	c	72 56		0
iterfild	b	66 40		0
ree....	b	84 53		0
ifton..	b	72 52		0
n Inn's	b	72 40		0
erell..	.	..	..	..
irke ..	g	76 49		0
rrabri	b	76 48		0
midale	n	61 33		0
ndem'r	c	70 35		0
nned'h	.	..	..	..
onam'le	b	74 45		0
nworth	b	70 37		0
onab rn	b	73 38		0
facqrie	b	73 53		0
kcannia	b	70 52		0
rr'undi	b	67 45		0
sllis..	.	..	..	..
s'br'ok	b	74 44		0
bbo...	g	69 44		0
nindie	g	71 51		0
dgee .	b	70 40		0
itland.	b	70 49		0
l End.	.	..	..	..
twcastle	b	74 52		0
ange..	c	59 36		0
thurst.	f	56 34		0
		Ba		
forb's	b	69 49		0
Vict'ria	b	54 48		0
ndob'ln	c	63 55		0
ton..	b	66 36		0
rcoar..	.	..	..	
ntw'th	b	71 49		0
ung...	b	66 46		0
ilgo'ng	b	74 57		0
y....	g	72 32		0
iss Vale	b	59 46		0
ston...	c	76 47		0
ulburn	b	66 43		0
gga...	g	67 49		0
ne Geo.	b	73 54		0
eanb'n	b	78 45		0
niliq'n	g	66 45		0
ruya..	b	72 51		0
ndra..	f	44 26		0

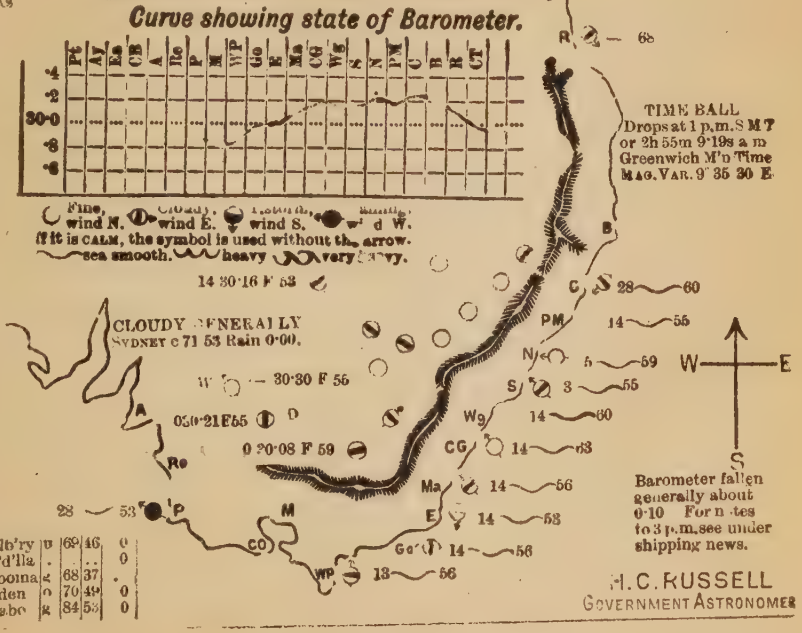
WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 24 1881, with Norths to 2 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S ; *Long* 10*h.* 4*m* 50·81*s* E

Average Annual Rainfall for 22 years ..... 51·461.
Average for 23 years from Jan. 1st to April 30 .. 21·487.
Total Rainfall from Jan. 1st to May 24 . 16·201
Barometers corrected to 32° Fah and Mean Sea Level



METEOROLOGICAL REPORTS.—MAY 25.

Western Australia: Perth, S.E., light, fine, barometer 30·37, temperature 69°, rainfall 0·01; Albany, light N.W. breeze and fine, barometer 30·39, temperature 57°, sea smooth. South Australia: Cloudy generally; showery at Cape Borda and Mount Gambier; 0·23 rain at Adelaide, 0·04 at Cape Borda, 0·15 at Robe, 0·18 at Mount Gambier; wind between N.W. and W.S.W., blowing strong at Cape Borda; barometer fallen slightly; sea rough at Cape Borda. Victoria: Melbourne and Wilson's Promontory cloudy, and showery at Cape Otway and Portland; 0·08 of rain at Melbourne, 0·30 at Cape Otway, 0.23 at Portland, and 0·88 at Wilson's Promontory; also squally with high sea; barometer has risen about 0·13 on south coast. New South Wales: Fine nearly throughout the colony, with wind generally between W. and N.W.; a number of stations record rain this morning, all, with the exception of Wollongong, being inland stations (see weather map); frosty at Armidale; the barometer on the coast has still fallen a little, the greatest fall being to the north, while at Moruya and Eden it is steady; moderate sea at Clarence, Port Macquarie, and Gabo Island. Queensland: Fine at Brisbane and Rockhampton, S.S.E. breeze at the latter station, and S.W. 40 miles at Brisbane; 0·15 of rain at Brisbane, and rather rough sea at Cape Moreton. 3 p.m. Observations.—New South Wales: Forbes, calm, fine, temperature 64°; Moruya, N.E., 28, fine, smooth sea, temperature 61°; Sydney, W., light, fine, clear, smooth sea, temperature 60°; Port Macquarie, S., fresh, fine, smooth sea, temperature 69°; Deniliquin, W., dull, temperature 66°; Goulburn, W., fine, temperature 58°; Eden, S.W., 14, fine, smooth sea, temperature 60°; Cape George, W., 28, fine, smooth sea, temperature 60; Newcastle, S.W., fine, smooth sea; Clarence River, W., 28, fine, smooth sea, temperature 60°. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 6 feet 2 inches above summer level. Murray, at Euston, 4 feet 7 inches above summer level. Darling: At Wentworth, 3 feet 2 inches above summer level; at Pooncarie, 1 foot 5 inches above summer level; at Menindi, 2 feet 2 inches above summer level; at Wilcannia, 8 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 25 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* : *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to April 30 .. 21·487.
Total Rainfall from Jan. 1st to May 25 . 16·201,
Barometers corrected to 32° Fah and Mean Sea Level

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

As

0 30·49 R 58

Curve showing state of Barometer.

Fine, wind N. wind E. wind S. wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

0 30·25 R 55

FINE GENERALLY
SYDNEY 0 70 53 Rain 0·00.

W 14 30·37 R 47

13—55 A

34—43

18—57 Re

23—52 P

133011 R49 M

430·31 R47 D

34—51 CO

WP 40—48

Go 28—52

E 14—56

Ma 14—59

CG 42—53

Wg 28—55

S 9—55

N 11—58

PM 0—64

C 28—61

B 40—61

R 68

W E S

Barometer risen about 0·13 on S. coast. For notes to 3 p.m. see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER.

Alb'ry	b	76	38	0·03
B'd'lla	b	64	34	0·25
Cooma	b	65	48	0
Eden	b	69	49	0·24
Gabo				

METEOROLOGICAL REPORTS.—MAY 26.

stern Australia: Perth, E., fine, temperature 69°; Albany, e, temperature 58°, sea moderate. South Australia: Cloudy ally throughout the colony, with strong N.W. wind and a h sea at Robe; 0·08 rain at Adelaide; 0·20 at Cape Borda; at Robe; the barometer has fallen about 13°; Mount Gam- wind N.W., 23, temperature 52°, weather squally, rain 0·89. oria: Fine at Melbourne only; raining at Portland; 0·05 of fell at Cape Otway; 0·08 at Portland; 0·07 at Wilson's montory; wind rather strong from N. to N.N.W.; rough sea ape Otway. New South Wales: Fine nearly all through the ny, a few cloudy stations to the S.W., and W.; barometer risen ·07 on east coast, but is falling again to the S.W. and g the river Darling; light showers at Casino this morning, fell up to 9 a.m.; wind between S.W. and W.; blowing strong ape St. George; sea moderate at Clarence Heads. Queens- : Cloudy and showery at Cooktown, with S.E. wind, while it he at Brisbane and Rockhampton; blowing strong at Brisbane the S.W., and rather rough sea at Cape Moreton. 3 p.m. ervations —Victoria: Barometers falling; Melbourne, N.N.W., squally, temperature 60°; Cape Otway, N.N.W., 56, threaten- rain, rough sea, temperature 55°; Portland, W., 23, smooth temperature 52°; Wilson's Promontory, N.N.W., 23, squally, lerate, temperature 58°. New South Wales: Albury, N.W., ady, temperature 60°; Forbes, calm, fine, temperature 54°; cuya, N.W., strong, fine, moderate, temperature 66°; Sydney, very light, smooth, temperature 63°; Port Macquarie, ., 42, fine, smooth, 68°; Deniliquin, N.W., dull, l, temperature 62; Goulburn, W., fine, temperature 59°; Eden, V., 14, fine, smooth, temperature 48°; Cape George, N., 42, , smooth, temperature 59°; Newcastle, N.W., fine, smooth; rence River, N.W., 14, fine, moderate, temperature 72°. ce of Rivers.—Murrumbidgee: At Wagga, 2 feet 9 inches above mer level; at Hay, 2 feet above summer level; at Balranald, et 6 inches above summer level. Murray: At Albury, 3 feet nches above summer level; at Euston, 5 feet 9 inches above mer level. Darling: At Wentworth, 3 feet 6 inches above mer level; at Menindi, 2 feet 1 inch above summer level; at cannia, 6 inches above summer level.

WEATHER MAP.

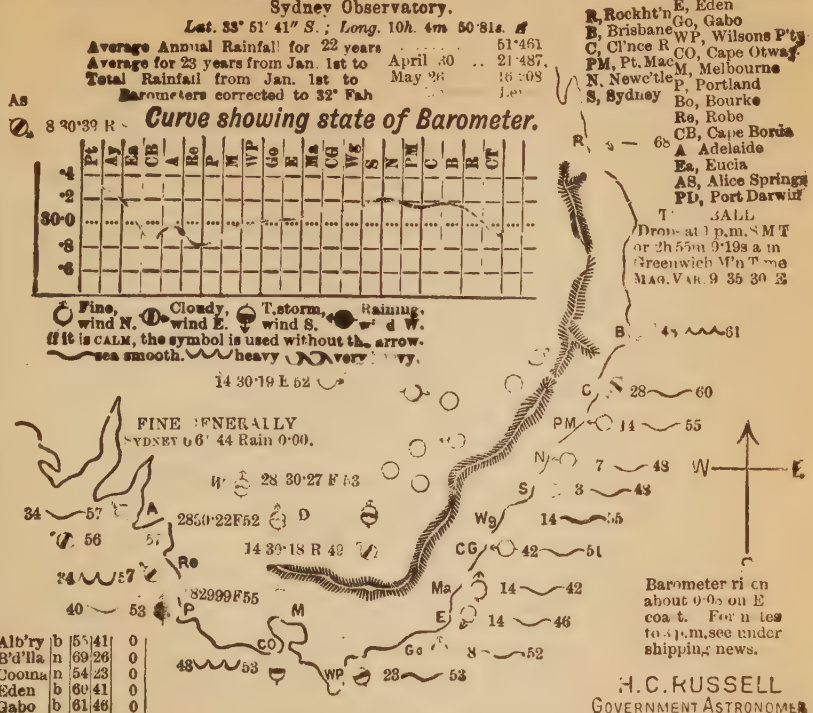
COMPILED from TELEGRAMS for 9 A.M., MAY 26 1881, with Notes to 8 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to April 30 .. 21·487.
Total Rainfall from Jan. 1st to May 26 16·08
Barometers corrected to 32° Fah Le

Stations.	wt	M'x	M.	R'in
Casino..	p	85	56	0·33
Tenterfild	b	66	38	0
Moree....	b	78	41	0
Grafton..	g	82	55	0
Gl'n Inn's	f	65	36	0
Inverell..	b	66	35	0
Bourke ..	b	66	43	0
Narrabri	b	68	49	0
Armidale	n	59	27	0
Bendem'r	b	64	28	0
Gunned'h	b	77	23	0
Coonam'le	b	60	34	0
Tamworth	b	67	28	0
Coonab rn	n	61	26	0
P.Macqrie	b	70	48	0
Wilcannia	b	60	43	0
Murr'undi	b	61	34	0
Cassilis..	n	69	28	0
Mus'br'ok	b	65	31	0
Dubbo...	b	68	37	0
Menindie	b	67	43	0
Mudgee	n	71	30	0
Maitland.	b	63	38	0
Hill End.	n	50	26	0
Newcastle	b	74	42	0
Orange..	b	58	35	0
Bathurst.	n	51	25	0
28 58 Forb's	b	68	38	0
Mt Vict'ria	b	45	32	0
Condob'ln	b	52	35	0·02
Picton..	n	59	28	0
Carcoar..	n	50	34	0
Wentw'th	b	65	46	0
Young...	n	64	36	0
Wollgo'ng	b	67	42	0
Hay...	g	61	32	0
Moss Vale	n	50	35	0
Euston...	g	64	44	0
Goulburn	b	52	28	0
Wagga...	n	54	33	0
Cape Geo.	b	63	..	0
Queanb'n	b	66	30	0
Deniliq'in	g	65	39	0
Moruya..	b	72	39	0
Kiandra..	f	40	12	0
Alb'ry	b	55	41	0
B'd'lla	n	69	26	0
Cooma	n	54	23	0
Eden	b	60	41	0
Gabo	b	61	46	0



H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 27 1881, with NOTES to 3 P.M.

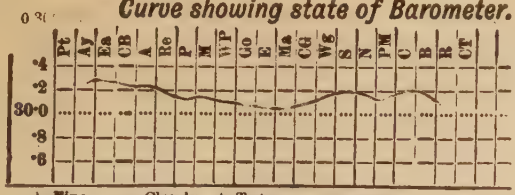
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10h. 4m 50·81s *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to April 30 .. 21·487.
Total Rainfall from Jan. 1st to May 27 16·208
Barometers corrected to 32° Fah.

Stations.	W'th	M'x	M.S	R'in
Casino..	c	74	53	0·03
Tenterfild	b	65	40	0
Moree....	u	77	50	0
Grafton..	u	72	52	0
Gl'n Inn's	b	63	34	0
Inverell..	g	66	38	0
Bourke ..	g	67	43	0
Narrabri	u	68	4	0
Armidale	u	60	34	0
Bendem'r	g	67	33	0
Gunned'h	u	77	24	0
Coonam'le	c	64	37	0
Tamworth	c	73	30	0
Coonab rn	u	66	5	0
P.Macqrie	b	70	51	0
Wilcannia	c	60	49	0
Murr'undi	c	63	42	0
Cassilis.	u	66	38	0
Mus'br'ok	g	69	34	0
Dubbo...	c	66	35	0
Menindie	c	65	49	0
Mudgee..	a	70	31	0
Maitland.	g	62	42	0
Hill End.	c	52	29	0
Newcastle	g	67	46	0
Orange..	c	58	32	0
Bathurst.	n	60	27	0
0 58		Ea		
Corb's	c	69	34	0
Mt Vict'ria			..	.
Condob'lin	g	50	41	0
Picton..	g	58	56	0
Carcoar..	g	50	31	0
Wentw'th	b	67	47	0
Young...	n	56	38	0
Wollgo'ng	.	.	..	..
Hay...	b	61	38	0
Moss Vale	u	54	41	0
Euston...	c	62	48	0
Goulburn	b	56	32	0
Wagga...	b	57	54	0
Cape Geo.	c	64	48	0
Queanb'n	b	58	34	0
Deniliq'in	g	61	42	0
Moruya..	g	68	41	0
Kiandra..	u	45	20	0
Alb'ry	g	59	42	0
B'd'lla	c	70	34	0
Cooma	c	55	36	0
Eden	u	58	46	0
Gabo	g	63	50	0

Curve showing state of Barometer.



Fine, wind N. **Cloudy, wind E.** **T.storm, wind S.** **Raining, wind W.**
If it is CALM, the symbol is used without the arrow.
sea smooth. **heavy** **very heavy.**

WG, Wellong
CG, Cape Geo
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucia
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL.
Drops at 1 p.m. - M T
or 2h 55m 9·19s a.m
Greenwich M'n T'me
MAG. VAR. 9 35 30 E

CLOUDY GENERALLY
SYDNEY g 65 48 Rain 0·00.

Barometer risen about ·15 S & SW coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 28.

Western Australia: Fine. Perth, temperature 68°; Albany, wind N.N.E., fresh, with very smooth sea. South Australia: Generally fine throughout the colony, with wind from S.E.; 0·01 rain at Adelaide, 0·02 at Cape Borda, 0·13 at Robe; the barometer has risen about ·11; smooth sea at Cape Borda; Port Augusta, Alice Springs, and Daly Waters, all fine, clear. Victoria: Cloudy. Showery at Cape Otway and Portland; 0·26 rain at Cape Otway, 0·08 at Portland, and 0·27 at Wilson's Promontory; wind variable, blowing fresh at Portland; barometer has risen about ·14; moderate sea at Cape Otway. New South Wales: Cloudy generally, rain fell during the night, chiefly in the northern portion of the colony—see weather map; showery at Casino, Clarence River, Armidale, and Sydney; raining at Cape St. George, frosty at Mount Victoria and Cooma; barometer has risen about ·19 on the S.E. coast; moderate sea at Clarence Heads. Queensland: Cloudy at Brisbane and showery at Cape Moreton, with strong wind blowing from the south; moderate sea at Cape Moreton; rainfall—Brisbane 0·59, and at Cape Moreton 0·50. 3 p.m. Observations.—Victoria: Barometers steady; Portland, S.S.E., 23, cloudy, smooth sea, temperature 55°; Cape Otway, S.S.E., 8, misty, moderate sea, temperature 55°; Wilson's Promontory, W.S.W., 18, cloudy, fine, smooth sea, temperature 52°. New South Wales: Wentworth, S.E., fine, temperature 56°; Deniliquin, calm, fine, temperature 61°; Albury, calm, fine, clear, temperature 60°; Goulburn, calm, cloudy, temperature 59°; Forbes, calm, cloudy, temperature 53°; Eden, S.W., 10, fine, sea smooth, temperature 59°; Moruya, S.W., fine, sea smooth, temperature 59°; Cape George, S.E., 11, raining, sea smooth, temperature 58°; Sydney, S.E., 14, showery, sea smooth, temperature 60°; Newcastle, S.S.W., fine, sea smooth; Port Macquarie, S.W., 20, unsettled, sea smooth, temperature 64°; Clarence River, W.N.W., raining, sea moderate, temperature 69°. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 3 inches above summer level; at Hay, 1 foot 6 inches above summer level; at Balranald, 6 feet 2 inches above summer level. Murray: At Albury, 3 feet 6 inches above summer level; at Euston, 6 feet 9 inches above summer level. Darling: At Wentworth, 4 feet 6 inches above summer level; at Pooncarie, 1 foot 6 inches above summer level; at Menindi, 1 foot 11 inches above summer level; at Wilcannia, 4 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 28 1881 with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 23 years from Jan 1st to April 30 .. 21·487.
Total Rainfall from Jan. 1st to May 28 . 16·223
Barometers corrected to 32° Fah. and from Sea Level.

Stations.	W't	M'x	M.	R'in
Casino..	p	71	61	0·30
Tenterfild	u	67	49	0
Moree....	g	66	50	0·18
Grafton..	u	73	54	0
Gl'n Inn's	u	72	54	0
Inverell..	g	64	47	0·35
Bourke ..	b	64	45	0
Narrabri	g	58	48	0·31
Armidale	p	57	39	0·63
Bendem'r	u	58	40	0·08
Gunned'h	b	58	33	0·13
Coonam'le	b	58	44	0
Tamworth	b	66	30	0·11
Coonab rn	p	56	33	0·23
P.Macqrie	g	68	55	0·04
Wilcannia	b	70	45	0
Murr'undi	c	59	45	0
Cassilis..	u	56	38	0
Mus'br'ok	b	58	39	0
Dubbo...	u	70	40	0
Menindie	b	62	43	0
Mudgee..	g	67	36	0
Maitland.	b	60	46	0
Hill End.	c	64	33	0
Newcastle	b	66	53	0
Orange..	c	51	36	0
Bathurst.	g	48	30	0
13 54		Ea		0
Forb's	c	64	35	
Mt Vict'ria	n	48	37	0
Condob'ln	r	51	42	0
Picton..	c	58	37	0
Carcoar..	g	47	28	0
Wentw'th	g	62	40	0
Young...	u	58	43	0
Wollgo'ng	c	63	50	0
Hay....	b	62	34	0
Moss Vale	u	59	42	0
Euston...	b	65	29	0
Goulburn	g	53	37	0
Wagga...	b	56	39	0
Cape Geo.	r	59	50	0
Queanb'n	g	50	40	0
Denilliq'in	b	62	35	0
Moruya..	[illegible]	66	47	0
Kiandra..	[illegible]	47	21	0
Alb'ry	b	63	36	0
B'd'lla	g	69	36	0
Cooma	n	53	31	0
Eden	c	58	49	0
Gabo	g	..	..	0

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.

Barometer risen about ·21 on S.E. coast. For notes to 3 p.m. see under shipping news.

R, Rockht'n
B, Brisbane
C, Cl'nce R.
PM, Pt. Mac
N, Newc'tle
S, Sydney

WG, Wollong
CG, Cape Geo.
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucia
AS, Alice Springs
PD, Port Darwin

TIME BALL Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—May 30.

Western Australia: Showery at Perth, with strong breeze from W., temperature 57°, and 0·70 of rain; Albany, fine, with very light breeze from W., temperature 51°; rainfall 0·04. South Australia: Fine generally inland; wind throughout the colony, S.E. to N.E., with smooth sea at Cape Borda and Robe; 0·09 rainfall at Cape Borda; barometer steady at Alice Springs, risen 0·02 at Eucla, while at the other stations it has fallen about 0·07. Victoria: Cloudy, wind about E., and calm at Melbourne; blowing rather strong at Wilson's Promontory, Cape Otway, and Portland; rather rough sea at Wilson's Promontory; 0·04 rain fell at Portland, and 0·12 at Wilson's Promontory; barometer has fallen about 0·05. New South Wales: Cloudy generally throughout the colony, with wind between S.E. and S.W.; blowing strong S.E. gale at Cape St. George; raining at Muswellbrook, Maitland, Newcastle, Nelson's Bay, Mount Victoria, South Head, Wollongong, Moss Vale, Cape St. George, and Eden; showery at Grafton Island—see weather map; barometer has fallen about 0·23 along coast; heavy sea at Wollongong, Cape St. George, and Eden. Queensland: Fine at Brisbane and Rockhampton, with very light W. wind, and cloudy at Cape Moreton, with strong wind from the W.S.W., and moderate sea. 3 p.m. Observations.—Victoria: Melbourne, S.E., 13, fine, barometer 30·16, temperature 61°; Cape Otway, E.S.E., 18, cloudy, temperature 55°; Portland, E., 28, cloudy, sea slight, temperature 57°; Wilson's Promontory, E.S.E., 28, cloudy, sea rather rough, temperature 54°; New South Wales: Wentworth, S., 10, fine, temperature 67°; Albury, calm, fine, clear, temperature 63°; Forbes, calm, fine, clear, temperature 53°; Moruya, S.W., strong gale, raining thick, very heavy sea, temperature 57°; Sydney, W.S.W., 40, showery, sea moderate, temperature 57°; Port Macquarie, S.W., 42, raining, moderate, temperature 61°; Deniliquin, calm, cool, temperature 62°; Goulburn, S.W., raining, temperature 57°; Eden, S.W., strong, raining heavy, temperature 55°; Cape George, S., 50, strong gale, raining, heavy, temperature 58°; Newcastle, S.W., dull, smooth; Clarence River, W., 28, fine, smooth, temperature 60°. It will be seen by the weather map that the rain has been confined to the coast and high lands, and has been heaviest in the valley of the Hunter. State of Rivers:—Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 6 inches above summer level; at Balranald, 5 feet 6 inches above summer level. Murray: At Albury, 2 feet 9 inches above summer level. Darling: At Wentworth, 5 feet 6 inches above summer level; at Pooncarie, 1 foot 4 inches above summer level; at Menindie, 1 foot 9 inches above summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 30 1881. with Notes to 3 P.M.

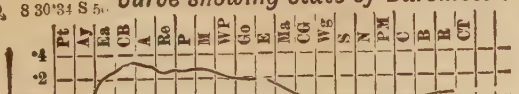
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to April 30 .. 21·487
Total Rainfall from Jan. 1st to May 30 . 17·723
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	w't	M'x	M.a	R'in
Casino..	b	79	49	0·23
Tenterfild	b	65	31	0·16
Moree....	f	72	43	0
Grafton..	b	99	61	1·20
Gl'n Inn's	b	61	37	0
Inverell..	b	64	35	0
Bourke ..	f	65	45	0
Narrabri	b	66	42	0
Armidale	g	58	35	0·06
Bendem'r	c	68	39	0·02
Gunned'h	u	79	36	0
Coonam'le	b	63	41	0
Tamworth	b	69	40	0·06
Coonab rn	b	67	41	0·07
P.Macqrie	o	70	55	0
Wilcannia	b	59	42	0
Murr'undi	u	58	45	0·25
Cassilis..	o	65	48	0·41
Mus'br'ok	r	64	50	0·95
Dubbo...	u	65	39	0·43
Menindie	b	60	41	0
Mudgee .	u	75	50	0·50
Maitland.	r	65	50	3·20
Hill End.	b	53	36	0·72
Newcastle	r	63	54	3·89
Orange..	u	56	47	0·43
Bathurst	u	61	39	0·07
22 53		Ea		
Corb's	g	68	38	0·26
MtVict'ria	r	53	42	1·34
Condob'ln	b	52	42	0·78
Picton..	u	59	52	0
Carcoar..	u	55	45	0·28
Wentw'th	b	63	38	0
Young...	c	59	48	0·09
Wollgo'ng	r	65	53	1·30
Hay....	g	62	35	0
Moss Vale	r	50	47	2·25
Euston...	b	66	35	0
Goulburn	u	53	44	0·24
Wagga...	g	59	49	0·20
Cape Geo.	r	58	54	0·77
Queanb'n	g	61	42	0·15
Deniliq'in	b	63	33	0
Moruya..	p	63	52	0·38
Kiandra..	c	44	20	0
Alb'ry	b	65	40	0
B'd'lla	p	..	46	0·26
Cooma	c	53	41	0·05
Eden	r	60	52	0·27
Gabo	p	..	.	0·20

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
Sea smooth. heavy very heavy.

WG, Wollong
CG, Cape Geo
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n T me
MAG. VAR. 9° 35 30 E

Barometer fallen about 0·23 on E. coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—MAY 31.

Western Australia: Perth, wind W., showery, barometer 30·09, nperature 51·, rainfall 0·28, and slight sea; Albany, SW., 18, rometer 29·93, temperature 56·, and rain 0·13. South Australia: e generally, wind light, between N.E. and N.N.W., and derate sea at Cape Borda; no rain; barometer has fallen out ·08 at the coast stations; Port Darwin, S.E., 8, no rain; ly Waters, S.E., cloudy, no rain. Victoria: Cloudy weather; owery at Cape Otway, wind between N.E. and S.S.E.; blowing ong at Wilson's Promontory from the E.S.E., with rough sea; 7 of rain fell at Cape Otway, and 0·01 at Wilson's Promontory. e barometer has fallen about ·13 since last night. New South les: Cloudy generally; south of Cape St. George the wind between E. and S.E., and north of there from S.W. to N.W.; ning at Newcastle, Moss Vale, Goulburn, Bodalla, and Moruya; wery at Forbes, Sydney, Mount Victoria, Eden, and Gabo nd (see weather map); foggy at Inverell and Albury; baro- er has fallen about ·26; sea very heavy at Moruya Heads and vy at Cape St. George, Eden, and Gabo Island. Queensland: ; light S.W. breeze at Rockhampton, and from the W. at sbane and Cape Moreton; no rain recorded; barometer rose nt 0·28 at Brisbane; moderate sea at Cape Moreton. 3 p.m. ervations. — Victoria: Barometers falling; Melbourne, W., 3, fine, temperature 56·; Cape Otway, E., 8, gloomy, oth sea, temperature 57·; Portland, N.N.E., 3, fine, oth sea, temperature 57.; Wilson's Promontory, E., misty, overcast, rough sea, temperature 57. New th Wales: Wentworth, W., fine, temperature 65·; ry, calm, fine, clear, temperature 62·; Forbes, calm, fine, perature 59·; Moruya, S., 28, cloudy, heavy sea, tempera- 65·; Sydney, S.W., fresh, cold, little sea, temperature 60·; Macquarie, calm, dull, smooth sea, temperature 64·; Deni- in, W. fine, temperature 62·; Goulburn, calm, showery, tem- ture 60·: Eden, E.S.E., 42, showery, heavy sea, temperature Cape George, S., 28, cloudy, heavy sea, temperature 65·; castle, W., raining, smooth sea. State of Rivers.—Murrum- ee: At Wagga, 3 feet 6 inches above summer level; at Bal- ld, 5 feet 3 inches above summer level. Murray: At Albury, et 10 inches above summer level; at Euston, 7 feet 8 inches ve summer level. Darling; At Wentworth, 6 feet above sum- level; at Pooncarie, 1 foot 7 inches above summer level; Menindi, 1 foot 7 inches above summer level; at Wilcannia, mer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., MAY 31 1881. with Notes to 3 P.M.

Sydney Observatory.

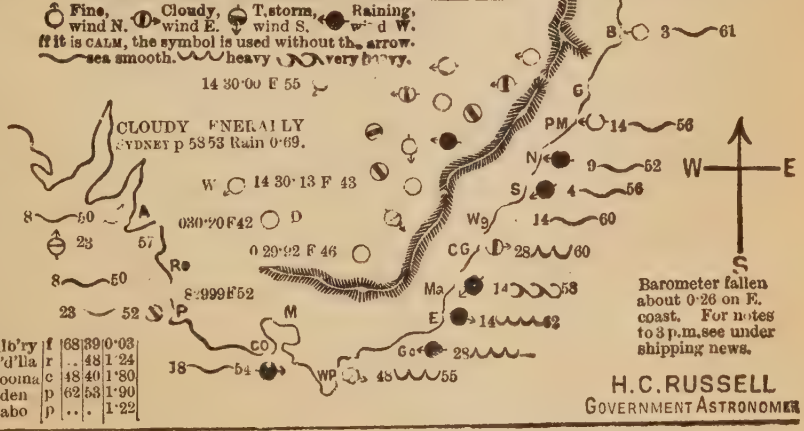
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to April 30 .. 21·487.
Total Rainfall from Jan. 1st to May 31 . 18·414
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	W'N	M.	R'in
Casino..	b	70 46	0	
Tenterfild	b	51 40	0	
Moree....	b	68 45	0	
Grafton..	b	77 45	0	
Gl'n Inn's	b	51 41	0	
Inverell..	f	63 39	0	
Bourke ..	b	66 46	0	
Narrabri	b	62 40	0	As
Armidale	u	54 38	0·08	
Bendem'r	u	55 45	0·07	
Gunned'h	u	79 32	0·04	
Coonam'le	b	64 40	0	
Tamworth	c	60 45	0·05	
Coonab'rn	b	62 40	0	
P.Macqrie	o	66 50	0·12	
Wilcannia	b	61 43	0	
Murr'undi	u	58 48	0·06	
Cassilis..	b	67 49	0	
Mus'br'ok	u	62 49	0·14	
Dubbo...	b	69 42	0	
Menindie	b	65 46	0	
Mudgee..	u	69 50	0	
Maitland.	p	61 53	0·41	
Hill End.	b	52 34	0	
Newcastle	r	61 52	0·78	
Orange..	b	51 43	0	
Bathurst	u	55 45	0	
22 58		Ea		
Forb's	b	65 39	0	
Mt Vict'ria	p	50 40	0·34	
Condob'ln	b	53 41	0	
Picton..	o	70 55	0·23	
Carcoar..	u	53 46	0·12	
Wentw'th	b	68 35	0	
Young...	c	64 46	0	
Wollgo'ng	c	63 50	1·04	
Hay...	b	61 28	0	
Moss Vale	r	52 43	2·12	
Euston...	b	66 31	0	
Goulburn	r	54 44	1·08	
Wagga...	b	61 45	0·06	
Cape Geo.	c	67 53	2·20	
Queanb'n	b	54 44	0·54	
Deniliq'in	b	63 35	0	
Moruya..	o	63 60	1·95	
Kiandra..	c	50 24	0	
Alb'ry	f	68	39	0·03
B'd'lla	r	..	48	1·24
Cooma	c	48	40	1·80
Eden	p	62	53	1·90
Gabo	p	..	.	1·22

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Barometer fallen about 0·26 on E. coast. For notes to 3 p.m. see under shipping news.

WG, Wellong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'tg
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Ro, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n T me
MAG. VAR. 9° 35 30 E

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—June 1.

'estern Australia: Perth, fine, with S. breeze, temperature 46°, rain fell since yesterday. South Australia: Fine generally, d between N.N.W. and N.E., no rain, sea rough at Cape da; the barometer has fallen about ·06. Victoria: Raining Wilson's Promontory and fine at Melbourne and Portland, h breeze from W. at Wilson's Promontory with rough sea, . rain at Melbourne, and 0·53 at Wilson's Promontory; the ometer has risen very slightly at Melbourne, and fallen at the er stations. New South Wales Fine generally, southern tions cloudy, wind light between S.W. and N., showery at lalla and Gabo Island (see weather map); frosty at Mudgee l foggy at Kiandra; barometer has risen about ·06; heavy sea Eden, and rather rough at Gabo Island. Queensland: Rockmpton, cloudy, and fine at Brisbane and Cape Moreton, light V. wind and smooth sea at Cape Moreton. 3 p.m. Observaıs.—Victoria, barometers steady; Melbourne, N.N.E., 8, ıdy, temperature 62°; Portland, N., 13, cloudy, smooth sea, ıperature 60°; Cape Otway, S., 3, hazy, moderate sea, temperae 61°; Wilson's Promontory, W., 23, cloudy, rough sea, temature 54°. New South Wales: Wentworth, N., fine, clear, ıperature 60°; Deniliquin, calm, fine, temperature 64°; Albury, n, dull, like rain, temperature 61°; Goulburn, W., light, fine, ıperature 61°; Forbes, calm, fine, temperature 56°; Eden, S.W., showery, heavy sea, temperature 62°; Moruya, S.S.E., 42, wery, heavy sea, temperature 60°; Cape George, S., 28, cloudy, moderate, temperature 63°; Sydney, W., 1, detached clouds, smooth, temperature 65°; Newcastle, W., fine, sea smooth; rt Macquarie, S.W., 28, fine, sea smooth, temperature 65°. te of Rivers:—Murrumbidgee, at Wagga, 3 feet 3 inches above nmer level; at Hay, summer level; at Balranald, 4 feet 7 hes above summer level. Murray, at Albury, 2 feet 10 inches ove summer level; at Euston, 8 feet above summer level. Darl; at Wentworth, 6 feet 5 inches above summer level; at Poonie, 1 foot 7 inches above summer level; at Menindi, 1 foot 5 hes above summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., JUNE 1, 1881 with **NORMS** to 8 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50·81*s.* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to May 31 ... 5·184.
Total Rainfall from Jan. 1st to June 1 . . 18·479
Barometers corrected to 32° Fah. and Mean Sea Level.

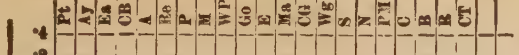
Stations.	w't	m'x	M.	R'in
Casino..	b	73	44	0
Tenterfild.	b	52	36	0
Moree....	b	64	42	0
Grafton..	b	76	45	0
Gl'n Inn's	b	55	39	0
Inverell..	b	58	36	0
Bourke ..	b	67	44	0
Narrabri	b	65	42	0
Armidale	b	54	39	0
Bendem'r	b	54	43	0
Gunned'h	b	72	36	0
Coonam'le	b	62	38	0
Tamworth	b	62	44	0
Coonab'rn	b	63	38	0
P.Macqrie	b	69	51	0
Wilcannia	b	60	44	0
Murr'undi	o	55	48	0
Cassilis .	b	58	43	0
Mus'br'ok	c	62	48	0·01
Dubbo...	b	68	42	0
Menindie	b	67	40	0
Mudgee	b	70	50	0
Maitland.	b	63	53	0·10
Hill End.	c	53	33	0
Newcastle	b	62	51	0·51
Orange..	c	54	45	0
Bathurst	u	55	46	0
22	52	Ea		
Forb's	b	52	40	0·08
MtVict'ria	b	62	39	0
Condob'ln	b	50	41	0
Picton..	c	65	55	0·14
Carcoar..	g	51	45	0·07
Wentw'th	b	67	39	0
Young...	c	60	50	0
Wollgo'ng		..	..	..
Hay....	b	63	36	0
Moss Vale	c	57	45	0·05
Euston...	b	66	33	0
Goulburn	g	61	43	0·20
Wagga...	b	62	44	0
Cape Geo.	c	66	52	0 12
Queanb'n	b	68	45	0
Deniliq'in	b	62	33	0
Moruya..	g	63	54	0.21
Kiandra..	u	53	25	0·50

Alb'ry	b	67	43	0·02
B'd'lla	p	55	50	0
Cooma	c	58	40	0·33
Eden	u	63	55	0·57
Gabo	p	..	..	0·88

W, Wollong
CG, Cape Geo
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N Newc'tle
S, Sydney

Curve showing state of Barometer.



Barometer fallen about 0·05 on S. coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 2.

Western Australia: Perth, fine weather with smooth sea; Albany, S.W., cloudy, temperature 57°. South Australia: The barometer fell rapidly throughout the colony with heavy rain, which has extended well inland over northern areas, the average being about 50 of an inch; 0·46 at Adelaide, 0·36 at Port Augusta, 0·14 at Robe, 0·17 at Eucla; slight sea at Cape Borda. Victoria: Cloudy on coast, except at Cape Otway, wind N. to N.E.; blowing fresh at Cape Otway and Portland; 0·05 rain fell at Wilson's Promontory; slight sea at Wilson's Promontory and Cape Otway; the barometes has fallen about 0·16 since last report. New South Wales: Fine generally, some of the southern and western stations cloudy, wind very light and chiefly from W. to N.W.; raining at Wentworth, Euston, Menindie; frosty at Dubbo, Bathurst, Mount Victoria, Young, Cooma, Glen Innes, Armidale, and Coonabarabran; foggy at Bathurst, Albury, and Queanbeyan; barometer has fallen ·19 on S.E. coast; heavy sea at Eden, and rather rough at Gabo Island. Queensland: Cloudy at Brisbane and Rockhampton, and fine at Cape Moreton and Townsville; strong S. breeze at Brisbane; smooth sea at Cape Moreton. 3 p.m. Observations.—New South Wales; Wentworth, N.N.W., showery, temperature 53°; Deniliquin, N., like rain, temperature 58°; Albury, W., light, fine temperature 60°; Goulburn, W., fine, temperature 61°; Forbes, calm, cloudy, temperature 58°; Eden, S., 14, cloudy, light sea, temperature 64°; Moruya, N.E., 20, fine, moderate sea, temperature 66°; Cape George, W., 42, fine, moderate sea, temperature 62°; Sydney, W.N.W., light, fine, smooth sea, temperature 63°; Newcastle, W., fine, smooth sea; Port Macquarie, calm, fine, smooth sea, temperature 66°. State of Rivers:—Murrumbidgee—at Balranald, 4 feet above summer level. Murray—at Euston, 8 feet 5 inches above summer level. Darling—at Wentworth, 6 feet 9 inches above summer level; at Menindi, 1 foot 5 Pooncarie, 1 foot 7 inches above summer level; at Wilcannia, summer level. inches above summer level;

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 2, 1880, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to May 31 ... 5·184
Total Rainfall from Jan. 1st to June 2 18·520
Barometers corrected to 32° Fah and Mean Sea Level

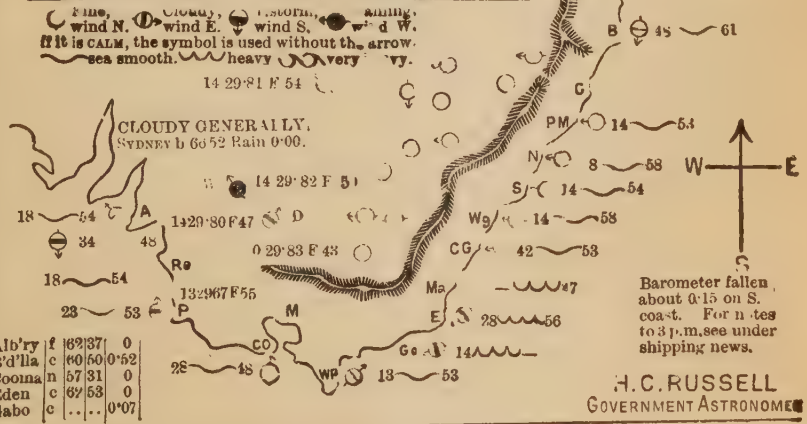
Stations.	W't	M'x	M.T	R'in
Casino...	b	73	44	0
Tenterfield	b	60	28	0
Moree....	b	71	39	0
Grafton..	b	78	50	0
Gl'n Inn's	n	59	27	0
Inverell..	b	59	30	0
Bourke ..	b	68	46	0
Narrabri	b	67	48	0
Armidale	n	55	32	0
Bendem'r	b	61	28	0
Gunned'h	b	72	23	0
Coonam'le	b	62	35	0
Tamworth	b	66	38	0
Coonab'rn	n	63	27	0
P.Macqrie	b	70	46	0
Wilcannia	u	63	43	0
Murr'undi	n	56	39	0
Cassilis..	b	65	34	0
Mus'br'ok	b	65	43	0
Dubbo...	n	67	41	0
Menindie	r	69	47	0·18
Mudgee	n	69	34	0
Maitland.	b	63	50	0
Hill End.	b	52	32	0
Newcastle	b	72	51	0
Orange..	b	55	48	0
Bathurst	n	52	30	0
22 47		Ea		
Forb's	b	59	37	0
MtVict'ria	n	52	37	0
Condob'lin	b	50	41	0
Picton..	b	67	44	0
Carcoar..	b	52	36	0
Wentw'th	r	72	44	0·19
Young...	n	60	38	0
Wollgo'ng	b	70	53	0
Hay...	c	68	36	0
Moss Vale	b	57	41	0
Euston...	r	75	45	0
Goulburn	b	58	38	0
Wagga...	b	57	37	0
Cape Geo.	b	66	51	0
Queanb'n	f	79	40	0
Deniliq'in	g	64	38	0
Moruya..	b	66	53	0.06
Kiandra..	b	55	25	0

Alb'ry	f	62	37	0
B'd'lla	c	60	50	0·52
Cooma	n	57	31	0
Eden	c	62	53	0
Gabo	c	..	..	0·07

As

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Fog, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—June 3.

South Australia: Cloudy generally on the coast, wind between W.N.W. and S.W., barometer low; heavy rains continue to fall at all places S. of tropics, average this morning about 0·75 of an inch, the heaviest falls being over the Flinders and Mount Lofty ranges; rough sea at Cape Borda. Victoria: Raining at Melbourne, and cloudy at the other stations, wind between W. and N., blowing fresh at Portland; 0·08 rain at Melbourne, and 0·38 at Portland, barometer has fallen about ·06; sea moderate at Cape Otway. New South Wales: Cloudy almost throughout the whole of the colony, with wind between S.W. and N.W.; the rain is also general. See weather map. Snowing this morning at Glen Innes and Mount Victoria; raining at Coonabarabran, Murrurundi, Dubbo, Orange, Young, Wagga, Albury, Hill End, and Hay; showery Tenterfield, Inverell, Bendemeer, and Nelson's Bay; heavy sea at Moruya, barometer has fallen about ·23 on E. coast. Queensland: Fine light W. breeze at Brisbane and rather strong from the S.W. at Cape Moreton, with smooth sea. 3 p.m. Observations.—New South Wales: Wentworth, N.W., dull, threatening, temperature 54°; Albury, W., light, cloudy, like rain, temperature 59°; Forbes, S., raining, temperature 54°; Moruya, W.S.W., raining, heavy sea, temperature 49°; Sydney, W.N.W., fresh, cold, smooth sea, temperature 55°; Port Macquarie, W., strong, fine, smooth sea, temperature 63°; Deniliquin, S.W., raining, temperature 59°; Goulburn, W., like rain, temperature 55°; Eden, S.W., light, raining, light sea, temperature 55°; Cape George, W., 42, like rain, smooth sea, temperature 50°; Newcastle, W., fine, smooth sea; Clarence River, W.N.W., fine, smooth sea, temperature 64°. State of Rivers.—Murrumbidgee, at Wagga, 2 feet 10 inches above summer level; at Hay, summer level; at Balranald, 3 feet 10 inches above summer level. Murray, at Albury, 2 feet 6 inches above summer level: at Euston, 8 feet 4 inches above summer level. Darling at Wentworth, 7 feet above summer level; at Pooncarie, 1 foot 7 inches above summer level, at Menindi, 1 foot 4 inches above summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 3, 1886, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ... ... 51·461
Average for 23 years from Jan. 1st to May 31 ... 5·184
Total Rainfall from Jan. 1st to June 3 18·663
Barometers corrected to 32° Fah

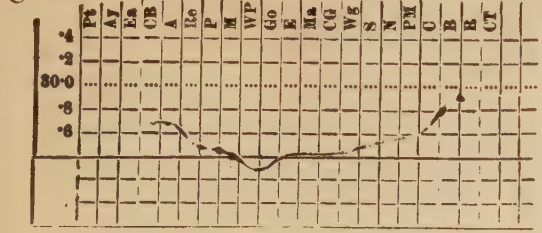
Stations.	Wt	M'x	M.n	R'in
Casino..	b	64	41	0
Tenterfild	p	61	31	0·26
Moree....	u	69	46	0·09
Grafton..	b	77	43	0
Gl'n Inn's	b	60	32	0
Inverell..	p	58	39	0·15
Bourke ..	b	71	46	1·85
Narrabri	g	69	50	0·08
Armidale	u	55	33	0·11
Bendem'r	p	60	37	0·21
Gunned'h	b	75	37	0·17
Coonam'le	b	64	43	0·26
Tamworth	r	66	38	0·12
Coonab'rn	)	63	34	0·29
P.Macqrie	b	69	41	0·06
Wilcannia	b	62	42	0·31
Murr'undi	ı	58	44	0·56
Cassilis..	b	66	44	0
Mus'br'ok	g	64	44	0.09
Dubbo...	r	65	38	0·44
Menindie	c	50	47	0·31
Mudgee..	r	71	39	0·34
Maitland.	b	63	49	0·05
Hill End.	r	52	28	0·45
Newcastle	b	70	49	0·08
Orange..	r	54	37	0 72
Bathurst	g	60	32	0·16
	Ea			
Forb's	r	54	44	0·41
MtVict'ria	b	49	36	0·09
Condob'lin	r	46	40	0·38
Picton..	g	64	49	0·18
Carcoar..	g	53	39	0·17
Wentw'th	c	54	42	0·33
Young...	r	60	44	0 23
Wollgo'ng	b	74	50	0
Hay....	r	56	33	0·88
Moss Vale	b	55	40	0·10
Euston...	g	78	43	0·52
Goulburn	u	60	40	0·11
Wagga...	r	60	41	0·51
Cape Geo.	b	70	49	0·03
Queanb'n	u	61	40	0·13
Deniliq'in	c	57	42	0·30
Moruya..	p	68	48	0·07
Kiandra..	b	38	15	0

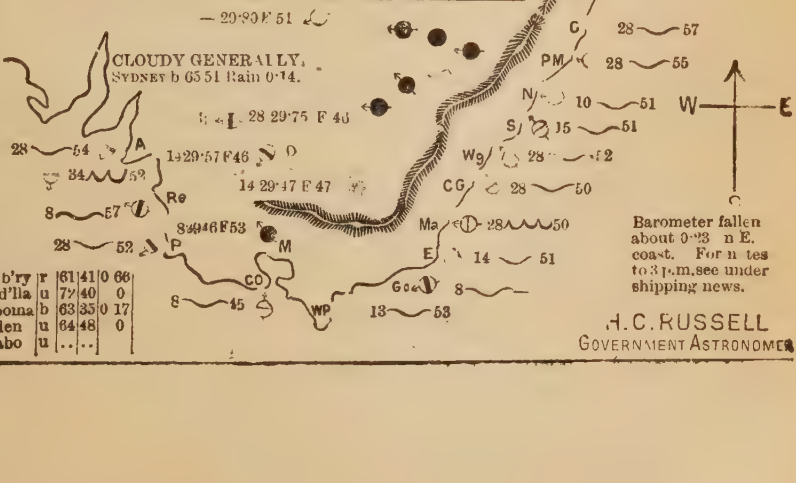
Alb'ry	r	61	41	0 66
B'd'lla	u	72	40	0
Cooma	b	63	35	0 17
Eden	u	64	48	0
Gabo	u	..	..	

WG, Wollong
CG, Cape Geor
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N Newc'tle
S, Sydney

Curve showing state of Barometer.





Barometer fallen about 0·23 in E. coast. For notes to 3 p.m. see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORT.—June 4.

tern Australia: Perth, fine, with fresh E.N.E. breeze, temre 47°. South Australia: Fine generally, with wind between d S.W., squally at Cape Borda, 0·14 rain at Adelaide, 0·16 Borda; the barometer has risen about ·14 since yesterhoderate sea at Cape Borda. Victoria: Fine at Melbourne, wery at Portland; Wilson's Promontory and Cape Otway, ; wind about W., except Portland, where a strong N.E. blowing; 0·66 rain at Cape Otway, 0·18 at Wilson's Proy; squally at Portland and Wilson's Promontory; baroll slightly at Wilson's Promontory and Melbourne, while rise is shown at Cape Otway and Portland; rough sea at Otway. New South Wales: Weather still generally cloudy, al at the northern stations being from W. to N.W., and orthern W. to N.; of the stations where rain was falling at 9 e whole, except Queanbeyan, are in the north of the viz., Inverell, Armidale, Bundemeer, and showery at ell and Tamworth; snowing steadily at Kiandra, 9 inches h ground; frosty at Cooma; the barometer shows a slight since yesterday; sea rather rough at Jervis Bay; Western ions interrupted. Queensland: Fine, wind variable, blowing h from S.E. at Cooktown, and from S.W. at Cape Moreton, n smooth sea. 3 p.m. Observations.—Victoria: Barometers dy; Portland, S.W., 56, squally with rain, high sea, temperae 52°. Cape Otway, S., 28, showery, high sea, temperature 50°; lson's Promontory, W., 34, squally with rain, moderate sea, perature 48°. New South Wales: Goulburn, W., 10, showery, perature 59°; Eden, N.W., 14, fine, little easterly sea, nperature 59°; Moruya, W., 30, fine, heavy easterly swell, nperature 59°; Cape George, W., 20, sea smooth, temperature °; Sydney, N.W., 20, squally, temperature 59°; Newcastle, W., , fine, no sea; Port Macquarie, W., 20, fine, sea smooth, temrature 61°; Clarence, N.W., 20, sea smooth, temperature 6v. ate of Rivers: Murrumbidgee—At Wagga, 3 feet 4 inches ove summer level; at Hay, summer level; at Balranald, 3 feet ove summer level. Murray—At Albury, 2 feet 10 inches above mmer level; at Euston, 9 feet 5 inches above summer level. arling—At Wentworth, 7 feet 1 inch above summer level; at ooncarie, 1 foot 7 inches above summer level; at Menindie, 1 foot inches above summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE, 4 1886, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

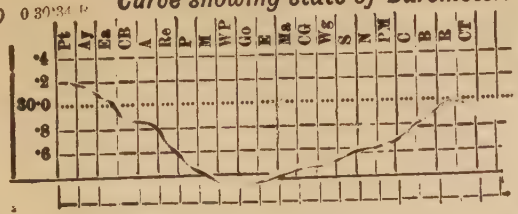
Average Annual Rainfall for 22 years	.....	51·461
Average for 23 years from Jan. 1st to	May 31 ..	5·184
Total Rainfall from Jan. 1st to	June 4	18·894

Barometers corrected to 32° Fah and Mean Sea Level

Stations.	w't	M'x	Mn	R'in
Casino..	b	63	44	0
Tenterfild	p	39	28	0·13
Moree....	g	58	48	0
Grafton..	b	68	43	0
Gl'n Inn's	.	..	..	..
Inverell..	ı	53	43	0·10
Bourke ..	.	..	..	..
Narrabri	u	55	45	0·09
Armidale	r	44	30	0·12
Bendem'r	r	49	40	0·18
Gunned'h	p	54	35	0·10
Coonam'le	.	..	..	..
Tamworth	p	51	41	0·12
Coonab'rn	.	..	..	.
P.Macqrie	b	65	50	0
Wilcannia	ı	56	46	0
Murr'undi	o	68	43	0·70
Cassilis..	.	..	..	..
Mus'br'ok	b	62	45	0·03
Dubbo...	u	60	33	0·77
Menindie	p	65	47	0·03
Mudgee..	.	..	..	.
Maitland.	b	56	50	0
Hill End.	.	..	..	..
Newcastle	b	70	45	0
Orange..	.	..	..	..
Bathurst	b	44	35	0·35
Forb's	ı	56	38	0
Mt Vict'ria	.	..	..	..
Condob'lin	p	48	39	0·40
Picton..	b	57	47	0·06
Carcoar..	r	45	37	1·10
Wentw'th	b	56	43	0·03
Young...	b	67	35	0·05
Wollgo'ng	.	..	..	..
Hay....	b	50	33	0·10
Moss Vale	c	47	37	0·24
Euston...	c	59	47	0·05
Goulburn	u	46	36	0·25
Wagga...	p	57	45	0·22
Cape Geo.	b	52	42	0·35
Queanb'n	r	53	39	0·34
Deniliq'in	b	52	40	0·15
Moruya..		..	..	..
Kiandra..	b	39	18	0

Alb'ry	b	52	44	0·16
B'd'lla	.	..	..	0
Cooma	n	47	30	0
Eden	u	57	49	0·71
Gabo	u	..	..	0·44

Curve showing state of Barometer.



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—June 6.

Western Australia: Showery at Albany, with light S. breeze; amount of rain 0·72 of an inch, temperature 51°, and moderate sea. South Australia: Cloudy generally. Barometers low on coast, with strong N.W. gale, and moderate rains; inland the rain is very light and partial, rough sea at Cape Borda. Victoria: Melbourne, fine, and cloudy at the other stations; wind N., and blowing rather strong at Portland; 0·32 rain fell at Melbourne; 0·42 at Cape Otway; 0·57 at Portland; and 0·59, and squally at Wilson's Promontory, with a moderate sea. Barometer steady at Wilson's Promontory, and has fallen about ·08 at the other stations. New South Wales: Fine generally, with wind between W. and N.; threatening rain at Wentworth; frosty at Tenterfield, Dubbo, Cassilis, Orange, Bathurst, Mount Victoria, Bodalla, and Queanbeyan. Barometer has risen about ·53 on E. coast, also smooth sea. Queensland: Fine throughout, strong wind from S.W. at Brisbane and Cape Moreton; and about S.E. at Rockhampton and Cooktown; smooth sea at Cape Moreton; barometers falling. 3 p.m. Observations.—Victoria: Portland, N., 10, cloudy, sea smooth, temperature 57; Cape Otway, 29·65, barometer N., 8, gloomy, sea smooth, temperature 55°. New South Wales: Wentworth, N., fresh, cloudy, temperature 65°; Albury, W., light, cloudy, like rain, temperature 56°; Forbes, calm, fine, temperature 52°; Moruya, N.E., 42, fine, sea rough, temperature 58°; Sydney, W., light, fine, clear, sea smooth, temperature 56°; Port Macquarie, E., 14, fine, sea smooth, temperature 60°; Goulburn, calm, fine, temperature 66°; Eden, N.E., 14, fine, sea smooth, temperature 56°; Cape George, W., 14, fine, little sea, temperature 59°; Newcastle, W., fine, sea smooth; Clarence River, S.W., 14, fine, sea smooth, temperature 62°. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 9 inches above summer level; at Hay, summer level; at Balranald, 3 feet above summer level. Murray: At Albury, 2 feet 10 inches above summer level; at Euston, 9 feet 3 inches above summer level. Darling: At Wentworth, 7 feet 3 inches above summer level; at Pooncarie, 1 foot 7 inches above summer level; at Menindie, 1 foot 2 inches above summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE, 6 1886, with NOTES to 3 P.M.

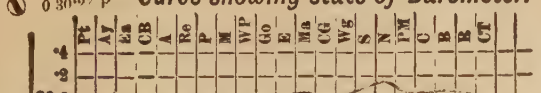
Sydney Observatory.

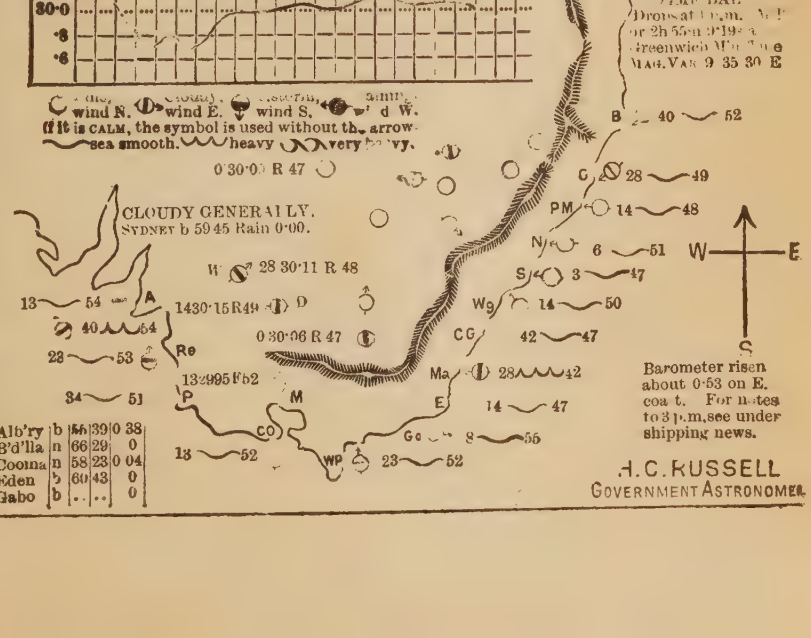
Lat 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to May 31 ... 5·184
Total Rainfall from Jan. 1st to June 6 ... 18·804.
Barometers corrected to 32° Fah

Stations.	W't	M'x	Min	R'in
Casino..	b	68	34	0
Tenterfild.	n	51	22	0
Moree....	c	66	40	0
Grafton..	b	71	38	0
Gl'n Inn's	n	48	26	0
Inverell..	b	54	30	0
Bourke ..	b	61	40	0
Narrabri	c	59	38	0
Armidale	b	46	26	0
Bendem'r	b	53	33	0
Gunned'h	b	69	22	0
Coonam'le	b	55	33	0
Tamworth	c	57	38	0
Coonab'rn	n	56	27	0·19
P.Macqrie	b	64	42	0
Wilcannia	b	56	48	0
Murr'undi	b	52	34	0·28
Cassilis..	n	50	32	..
Mus'br'ok	b	76	34	0·02
Dubbo...	n	57	36	0
Menindie	b	61	36	0
Mudgee .	n	64	30	0·15
Maitland.	b	60	39	0
Hill End.	b	45	36	0·15
Newcastle	b	67	41	0
Orange..	n	44	31	0
Bathurst	n	48	31	0·07
8 55		Ea		
Forb's	b	59	39	0
Mt Vict'ria	n	43	30	0
Condob'ln	b	47	38	0
Picton..	b	52	33	0
Carcoar..	g	46	36	0·34
Wentw'th	u	60	44	0·04
Young...	b	54	38	0·17
Wollgo'ng	b	64	44	0
Hay....			..	..
Moss Vale	n	43	32	0
Euston...	b	63	35	0
Goulburn	b	50	29	0
Wagga...	g	52	38	0·16
Cape Geo.	b	56	47	0
Queanb'n	n	53	29	0
Deniliq'in	g	64	35	0
Moruya..	c	64	40	0
Kiandra..	.	.	..	..
Alb'ry	b	55	39	0 38
B'd'lla	n	66	29	0
Cooma	n	58	23	0 04
Eden	b	60	43	0
Gabo	b	..	..	0

Curve showing state of Barometer.





H. C. RUSSELL
GOVERNMENT ASTRONOMER.

METEOROLOGICAL REPORT.

South Australia: Cloudy generally; showery at Robe and two her stations; heavy rains have fallen south of Port Augusta; several stations over 1 000 of rain fell; barometer now rising, th strong W. wind on coast; 0·43 rain at Adelaide, 0·65 at Cape rda, 0·86 at Robe, 0·06 at Eucla; rough sea at Cape Borda, and ally. Victoria: Cloudy, with N.N.W. wind; showery at Cape way and Portland; 0·03 rain at Melbourne, 0·47 at Cape Otway, 6 at Portland; squally at Melbourne and Wilson's Promontory, o at Portland, with hail; barometer low, having fallen since s'erday; rough sea at Wilson's Promontory. New South ales: Southern and Western stations generally cloudy, wind ween W. and N.; showery at Albury, and snowing steadily at ncia; frosty at Tenterfield, Bathurst, Cassilis, Dubbo, dgee, Hill End, Mossvale, Lockhart, and Cooma; barometer fallen about ·23 on the east coast, also snow in seas. Queensd: Brisbane and Cooktown, light S. W. breze at the n.; and W. at the latter; smooth sea at Cape Moreton. 3 m. Observations.—Victoria: Barometers rising; Melbourne, 18, squally, temperature 49°; Portland, N.W., 40, squally, h rain, sea smooth, temperature 45°; Cape Otway, N., 18, eatening rain, rough sea, temperature 48°; Wilson's Promontory, W., 40, squally, with rain, sea smooth, temperature 49° w South Wales: Wentworth, N.W., threatening, temperature ; Penilquin, W., 28, dull, threatening, temperature 58°; ury, W., light, like rain, temperature 56°; Goulburn, W., , temperature 54°; Forbes, calm, fine, temperature 49°; Eden, , 14, cloudy, moderate sea, temperature 55°; Moruya, N.W., fine, temperature 60°; Cape George, W., 42, cloudy, moderate , temperature 60°; Sydney, W., fresh, gloomy, cold, smooth , temperature 58°; Newcastle, W., fine, smooth sea; Port quarie, S.W., fine, clear, smooth sea, temperature 59°; rce River, N.W., 14, fine, smooth sea, temperature 63°. e of Rivers.—Murrumbidgee: At Wagga, 6 feet 6 inches ve summer level; at Hay, 1 foot above summer level; at Balle, 2 feet 10 inches above summer level. Murray: At ury, 3 feet above summer level; at Euston, 9 feet 8 inches ve summer level. Darling: At Wentworth, 7 feet 3 inches ve summer level; at Pooncarie, 1 foot 6 inches above summer l; at Menindi, 1 foot 1 inch above summer level; at Wilia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE, 7 1886, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to May 31 ... 5·184
Total Rainfall from Jan. 1st to June 7 ... 18·811
Barometers corrected to 32° Fah

Stations.	w't	M'x	M.	R'in
Casino..	b	72	34	0
Tenterfild.	n	58	24	0
Moree....	b	70	38	0
Grafton..	b	64	38	0
Gl'n Inn's	n	48	23	0
Inverell..	b	52	28	0
Bourke ..	b	63	41	0
Narrabri	b	60	36	0
Armidale	b	50	21	0
Bendem'r	n	51	28	0
Gunned'h	b	67	30	0
Coonam'le	b	58	33	0
Tamworth	b	59	25	0
Coonab'rn	b	61	25	0
P.Macqrie	b	62	41	0
Wilcannia	b	57	46	0
Murr'undi	b	52	39	0
Cassilis..	n	56	32	0
Mus'br'ok	b	59	32	0
Dubbo...	n	57	35	0
Menindie	b	61	49	0.03
Mudgee .	n	62	31	0
Maitland.	b	55	36	0
Hill End.	n	47	28	0
Newcastle	b	65	41	0
Orange..	g	45	31	0
Bathurst	b	55	29	0
23 53		Ea		
Forb's	g	56	38	0
Mt Vict'ria	u	48	34	0
Condob'lin	g	47	38	0
Picton..	n	55	30	0
Carcoar..	u	47	35	0
Wentw'th	b	63	40	0·31
Young...	u	78	42	0
Wollgo'ng	b	51	41	0
Hay....		..	..	..
Moss Vale	n	49	35	0
Euston...	b	61	40	0
Goulburn	g	55	31	0
Wagga...	u	54	43	0·08
Cape Geo.	b	52	44	0
Queanb'n	c	58	33	0
Deniliq'in	g	57	41	0·12
Moruya..	b	62	41	0
Kiandra..	o	30	12	0

Alb'ry	p	57	43	0	14
B'd'lla	n	66	30	0	
Cooma	n	55	31	0	
Eden	c	56	46	0	
Gabo	c	..	..	0	

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 8.

Western Australia: Weather fine; fresh breeze from E.S.E. at Perth; calm at Albany, temperature 52°. South Australia: Cloudy, with wind between S.S.E. and S.S.W., blowing rather strong at Cape Borda and Robe. 0·34 rain fell at Adelaide, 0·25 at Cape Borda, 0·19 at Robe, and 0·06 at Eucla. Barometer has risen about ·20 at Adelaide and Cape Borda, moderate sea on S.W. coast. Victoria: Showery at Melbourne, Portland, Cape Otway, and Wilson's Promontory, or round the coast also squally; squally with hail at Wilson's Promontory, 0·41 rain at Melbourne, 0·46 at Cape Otway, 0·77 at Portland, and 1·25 at Wilson's Promontory. Barometer has risen about ·24. Rough sea at Cape Otway and Wilson's Promontory. New South Wales: Cloudy almost throughout the colony and cold, prevailing wind W. Snowing at Glen Innes, Walcha, Armidale; heavily at Gunnedah, Hill End, Orange, and steadily at Kiandra; heavy fall snow at Mount Victoria, and snowing during night at Bathurst; frosty at Cooma; raining at Murrurundi, Coonabarabran, Young, Wagga; showery at Forbes, Queanbeyan, and Albury. (See weather map). Barometer has fallen about ·26 on E. coast. Also, smooth sea. Queensland: Cloudy and gloomy at Cooktown, with fresh breeze from the S.E.; no rain at any of the stations. Barometer steady at Brisbane. 3 p.m. Observations.—Victoria: Barometers rising. Melbourne, S., 18, squally with rain, temperature 50°; Portland, S., 31, cloudy, smooth sea, temperature 51°; Cape Otway, S., 48, squally, with rain, high sea, temperature 48°; Wilson's Promontory, S.W., 34, cloudy, rough sea, temperature 55°. New South Wales: Wentworth, S.S.W., fresh, fine, temperature 55°; Deniliquin, S.S.W., 28, cloudy, dull, temperature 57°; Albury, W., clear, fine, temperature 55°; Goulburn, W., fine, temperature 55°; Forbes, S.W., cloudy, temperature 53°; Eden, W.S.W., 42, fine, light sea, temperature 51°; Moruya, S.W., 42, cloudy, smooth sea, temperature 44°; Cape George, S.S.W., 55, like rain, sea rising, temperature 53°; Sydney, W.S.W., strong, cloudy, smooth sea, temperature 51°; Newcastle, W., fine, smooth sea; Port Macquarie, W.S.W., 56, fine, smooth sea, temperature 58°; Clarence River, W., fine, smooth sea, temperature 61°: New Zealand barometers: 29·3 North Island; 29·6 South Island. Weather fine. State of Rivers:—Murrumbidgee: At Wagga, 6 feet above summer level; at Hay, 2 feet above summer level; Balranald, 2 feet 10 inches above summer level. Murray: At Albury, 3 feet 2 inches above summer level; at Euston, 9 feet above summer level. Darling: At Wentworth, 8 feet 5 inches above summer level; at Pooncarie, 1 foot 5 inches above summer level; at Menindie, 1 foot above summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE, 8 1888, with NOTES to 3 P.M.

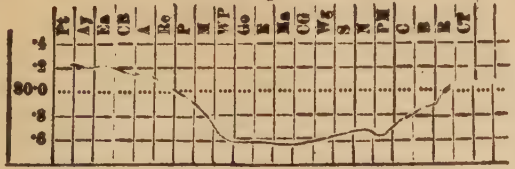
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s. E*

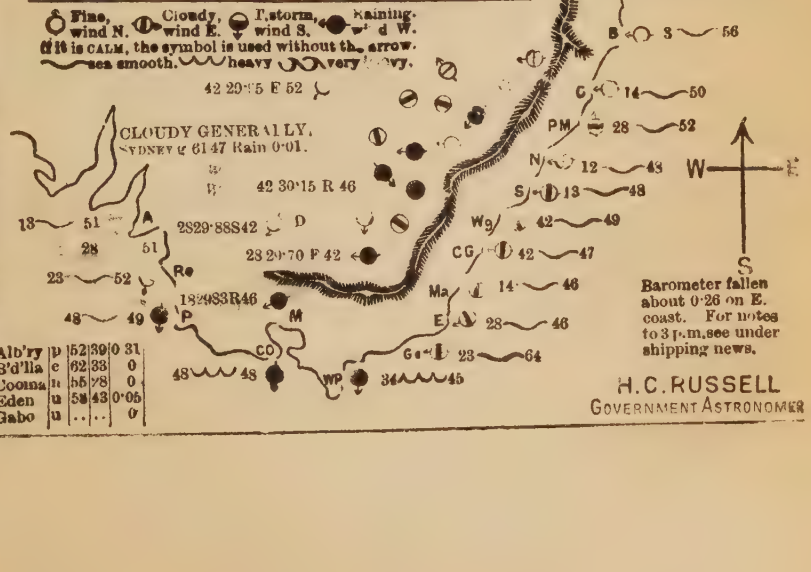
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to May 31 .... 5·184
Total Rainfall from Jan. 1st to June 8 .... 18 816.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	M'x	M.L	R'in
Cassino..	b	71	85	0
Tenterfild	c	53	31	0·12
Moree....	g	68	40	0
Grafton..	b	72	42	0
Gl'n Inn's	o	57	31	0
Inverell..	c	54	30	0.05
Bourke ..	b	62	40	0
Narrabri	g	63	38	0·05
Armidale	o	47	30	0·21
Bendem'r	o	55	32	0·60
Gunned'h	g	69	25	0·08
Coonam'le	.	..	..	..
Tamworth		..	..	
Coonab'rn	r	57	32	0·21
P.Macqrie	g	64	43	0
Wilcannia	b	56	49	0
Murr'undi	r	52	39	0·54
Cassilis..	c	54	38	0·20
Mus'br'ok	u	63	38	0
Dubbo...	c	57	36	0
Menindie	b	55	46	0·12
Mudgee..	p	56	35	0·34
Maitland.	b	58	42	0·10
Hill End.	o	45	26	0·25
Newcastle	g	65	45	0·07
Orange..	o	43	36	0·75
Bathurst	u	45	31	0·39
0 55		Ea		
Forb's	p	58	38	0·18
MtVict'ria	c	43	32	0 03
Condob'in	g	45	38	0
Picton..	q	59	38	0·01
Carcoar..	o	64	36	0·51
Wentw'th	b	58	43	0·17
Young...	r	56	39	0·36
Wollgo'ng	c	68	41	0
Hay....	b	54	29	0·19
Moss Vale	c	50	35	0·08
Euston...	b	59	40	0·25
Goulburn	b	47	34	0·03
Wagga...	u	50	38	0·26
Cape Geo.	g	61	43	0
Queanb'n	p	53	38	0·07
Deniliq'in	b	64	36	0·21
Moruya..	g	61	46	0
Kiandra..	o	28	8	0
Alb'ry	p	52	39	0 31
B'd'lla	c	62	33	0
Cooma	u	55	78	0
Eden	u	58	43	0·05
Gabo	u	..	..	0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Barometer fallen about 0·26 on E. coast. For notes to 3 p.m. see under shipping news.

WO, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R.
PM, Pt. Mac
N, Newc'tle
S, Sydney

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—June 9.

Western Australia: Perth, fine, wind N.E. fresh, temperature ; Albany, gloomy, with very light breeze from N., temperature . South Australia: Cloudy generally, wind about S.S.E., 0·30 in fell at Alice Springs, 0·37 at Robe, 0·05 at Cape Borda, 0·30 at acla, weather cold; the barometer is rising, but is about to commence falling again; sea smooth at Port Darwin and Robe, and oderate at Cape Borda. Victoria: Cloudy round coast stations d showery at Portland; wind between E.S.E. and S., blowing esh; 0·16 rain fell at Melbourne, 0·04 at Cape Otway, and 0·03 at ortland: the barometer has risen about ·13; rough sea at Cape way. New South Wales: Fine generally, with wind between . and S.; showery at Eden and sleeting at Kiandra, see weather ap; S.S.W. gale at Cape St. George; frosty at Tenterfield, alcha, Cassilis, Dubbo, Mudgee, Orange, Bathurst, Young, Moss ale, Wagga, and Deniliquin; the barometer has risen about ·31 the east coast; heavy sea at Wollongong, Cape St. George, oruya, and Eden. Queensland: Fine, no rain at any of the ations; wind S.E. to S.W., blowing fresh at Cooktown; smooth a at Cape Moreton. 3 p.m. Observations:—Victoria: Barometers steady; Melbourne, S. 18·, fine, temperature ·54; Cape way, S. 13, showery, high sea, temperature ·54; Portnd, S.S.E. 28·, fine, smooth sea, temperature 55·; Wiln's Promontory, S.W. 18, cloudy, sea smooth, temperature 52·. ew South Wales: Wentworth, calm, fine, temperature 51·; eniliquin, S.E., fine, cold, temperature 56·; Albury, calm, fine, ear, temperature 56·; Goulburn, S.W., dull, temperature 55·; orbes, calm, fine, clear, temperature 56·; Eden, S.W., 42, owery, heavy sea, temperature 54·; Moruya, S.S.W., 40, gloomy eavy sea, temperature 56·; Cape George, S., strong gale, raining, eavy sea, temperature 54·; Sydney, S.W., rather strong, dull, a moderate, heavy rain at night, temperature 54·; Newcastle, W., dull, heavy sea; Port Macquarie, S.S.W., strong, fine, sea oderate, temperature 60·; Clarence River, S.W., 28, fine, sea oderate, temperature 61·. New Zealand: Fine weather, easterly inds; barometers 29·90 to 29·50. State of Rivers:—Murrumdgee: At Hay, 2 feet 6 inches above summer level; at Balranald, feet 10 inches above summer level. Murray: At Albury, 3 feet inches above summer level; at Euston, 9 feet above summer vel. Darling: At Wentworth, 7 feet 4 inches above summer vel; at Pooncarie, 1 foot 4 inches above summer level; at lenindie, 11 inches above summer level; at Wilcannia, summer vel.

WEATHER MAP.

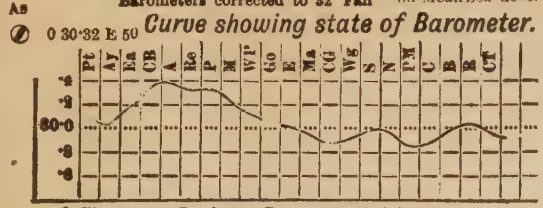
COMPILED from **Telegrams** for 9 A.M., JUNE, 9 1886, with **Notes** to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to May 31 ... 5·184
Total Rainfall from Jan. 1st to June 9 ... 18·816.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	w't	M'x	M.	R'in
Casino..	b	64	33	0
Tenterfield	n	47	28	0·15
Moree....	b	59	39	0
Grafton..	b	66	40	0
Gl'n Inn's	b	37	28	0
Inverell..	b	78	30	0·04
Bourke ..	b	61	41	0
Narrabri	b	57	33	0
Armidale	u	41	30	0·21
Bendem'r	b	47	37	0·17
Gunned'h	b	62	21	0
Coonam'le	b	53	35	0
Tamworth	b	50	30	0
Coonab'rn	o	52	31	0
P.Macqrie	b	59	49	0
Wilcannia	b	55	40	0
Murr'undi	o	48	36	0
Cassilis..	n	44	32	0
Mus'br'ok	b	58	31	0
Dubbo...	n	55	36	0
Menindie	c	56	40	0
Mudgee..	n	55	36	0
Maitland.	b	55	44	0
Hill End.	b	45	25	0·10
Newcastle	b	67	46	0
Orange..	n	39	32	0·37
Bathurst	n	42	36	0·03
0 54 Forb's	b	54	37	0
Mt Vict'ria	b	44	32	0
Condob'ln	b	45	38	0
Picton..	b	53	42	0
Carcoar..	g	40	36	0·50
Wentw'th	b	56	36	0
Young...	n	54	35	0·10
Wollgo'ng	b	64	46	0
Hay....	b	54	24	0
Moss Vale	n	50	33	0
Euston...	b	55	30	0
Goulburn	b	46	31	0
Wagga...	b	47	32	0·02
Cape Geo.	b	54	47	0
Queanb'n	b	54	37	0
Deniliq'in	n	58	31	0
Moruya..	b	59	42	0
Kiandra..	r	34	14	0
Alb'ry	b	54	27	0·02
B'd'lla	b	61	34	0
Cooma	c	44	33	0
Eden	p	58	43	0·11
Gabo		..	..	..



R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N. Newc'tle
S, Sydney

WG, Wollong
CG, Cape Geo
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometer risen about 0·31 on E. coast For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—June 10.

Western Australia: Cloudy; Perth, wind N., blowing strong, temperature 54°; Albany, wind N., light, temperature 53°. South Australia: Fine weather at Adelaide, the remaining stations are cloudy, wind light between E.N.E. and S.E.; 0·12 rain at Alice Springs, 0·04 at Cape Borda, and 0·18 at Eucla. The barometer has fallen rapidly to westward, weather threatening, but no rain yet; smooth sea at Cape Borda and Robe. Victoria: Fine at Melbourne; showery weather at Portland, wind between S.E. and N.E., blowing fresh; 0·07 rain at Cape Otway, 0·02 at Portland, frosty at Melbourne—the barometer has risen about ·05°; rough sea at Cape Otway. New South Wales: Fine genrally to the west of range, and cloudy to the east of it, wind S.E. to S.W.; raining at Muswellbrook, West Maitland, and Moss Vale; showery at Murrurundi, Newcastle, Mount Victoria, and Moruya—see weather map; frosty at Wagga, Queanbeyan, Deniliquin, and Menindie; squally at Port Macquarie, and blowing a gale at Cape St. George from S.S.E. The barometer has risen about 0·25 on east coast, and heavy sea, except at Clarence Heads. Queensland: Fine throughout, with wind from S.W. to W.; blowing strong at Brisbane from the S.W., no rain; moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria: Barometers falling; Melbourne, S.E., 13, fine, temperature 60°; Cape Otway, E.S.E., 8, fine, rough sea, temperature 56°; Portland, E.S.E., 28 fine, sea smooth, temperature 55°. New South Wales: Wentworth, S., fine, clear, temperature 56°; Deniliquin, calm, fine, clear, temperature 59°; Albury, calm, fine, clear, temperature 56°; Goulburn, S., dull, temperature 55°; Forbes, calm, fine, temperature 50°; Eden, S.W., 20, showery, heavy sea, temperature 54°; Moruya, S., fresh, cloudy, dull, heavy sea, temperature 57; Cape George, S.S.E., strong, cloudy, showery, heavy sea, temperature 57°; Sydney, S., fresh, cloudy, cold, sea moderate, temperature 59°; Newcastle, S.E., showery, heavy sea; Clarence River, S., strong, cloudy, sea moderate, temperature 61°. New Zealand: Storm, centre, over North Island, barometer 29·00, and 29·40 in South Island. Another storm is approaching; was at Albany at 9 a.m. this morning, and will take between two and three days to reach us; at present the indications are for very heavy W. to S.W. winds on the south coast, winds beginning at N. (as at Albany to-day), and working round to S.W. State of Rivers:—Murrumbidgee: At Wagga, 6 feet 3 inches above summer level; at Hay, 2 feet 6 inches above summer level; at Balranald, 3 feet above summer level. Murray: At Albury, 5 feet 10 inches above summer level; at Euston, 9 feet above summer level. Darling: At Wentworth, 7 feet 6 inches above summer level; at Pooncarie, 1 foot 4 inches above summer level; at Menindie, 10 inches above summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE, 10 1886, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to May 31 ... 5·184
Total Rainfall from Jan. 1st to June 10 ... 21·172

Barometers corrected to 32° Fah

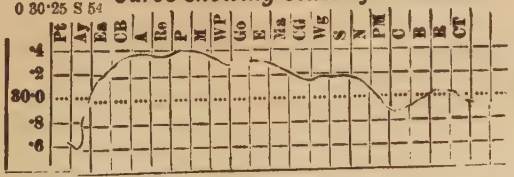
Stations.	wt	M'x	Ma	R'in
Casino..	c	69	41	0
Tenterfild.	u	51	28	0
Moree....	b	64	44	0
Grafton..	b	64	52	0
Gl'n Inn's	c	43	40	0
Inverell..	b	54	30	0
Bourke ..	b	59	39	0
Narrabri	c	59	42	0
Armidale	g	47	31	0
Bendem'r	u	50	39	0
Gunned'h	b	65	35	0
Coonam'le	b	55	37	0
Tamworth	b	56	35	0
Coonab'rn	o	55	37	0
P.Macqrie	r	62	53	0·44
Wilcannia	b	52	38	0
Murr'undi	p	51	38	0·11
Cassilis..	o	52	46	0
Mus'br'ok	r	59	37	0.29
Dubbo...	b	58	36	0
Menindie	n	54	36	0
Mudgee..	u	66	41	0
Maitland.	r	53	45	0·65
Hill End.	b	46	28	0
Newcastle	p	65	45	0·52
Orange..	b	43	35	0
Bathurst	b	49	37	0
13 52		Ea		
Forb's	b	52	41	0
MtVict'ria	p	45	33	0·18
Condob'ln	b	41	38	0
Picton..	g	56	50	0
Carcoar..	b	46	36	0
Wentw'th	b	58	37	0
Young...	b	54	36	0
Wollgo'ng	c	67	46	0·22
Hay....	b	53	28	0
Moss Vale	r	46	39	0·38
Euston...	b	58	36	0
Goulburn	u	52	39	0
Wagga...	n	51	29	0
Cape Geo.	c	56	50	0
Queanb'n	n	54	34	0
Deniliq'in	n	54	30	0
Moruya..	p	58	47	0·04
Kiandra..	u	35	15	0

Alb'ry	b	58	28	0
B'd'lla	c	58	44	0
Cooma	c	47	34	0
Eden	u	55	48	0·05
Gabo	.	..	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Ro, Robe
CB, Cape Borda
A Adelaide
Es, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N Newc'tle
S, Sydney

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

TIME BALL Drops at 1 p.m. M.T. or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometer risen about 0·25 on E. coast For notes to 3 p.m. see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 11.

estern Australia: Showery at Perth, wind N.N.E., tempera-
49·; raining heavily at Albany, with west wind, temperature
South Australia: Fine generally, with wind between N. and
eather clear and frosty, the barometer fell about 65·; mode-
ea at Cape Borda. Victoria: Fine at Portland, and dense
at Melbourne; no rain at any of the stations; barometer
ly, and moderate sea at Cape Otway; wind between E. and
New South Wales: Cloudy generally, with rain to the E.
nge, wind between E. and S.; drizzling rain at Tenterfield;
ng at Port Macquarie and Moss Vale, and showery at Casino,
ence Heads, Sydney, Mount Victoria, Cape St. George. (See
her map.) Frosty at Cassilis, Carcoar, Wagga, and Cooma;
arometer has risen about ·13 on E. coast; heavy sea at Eden.
nsland: Showery at Brisbane, with fresh breeze from W.,
overcast at Cape Moreton; ·02 rain at Brisbane up to 9 a.m.;
ooktown there is a light breeze from W., and from the S.W.
ckhampton. 3 p.m. Observations.—Victoria, barometers
n 0·10; Cape Otway, E., 8, cloudy, sea smooth, tem-
ure 52·; Portland, E., 13, fine, sea smooth, tempe-
e 55·; Wilson's Promontory, E.N.E., 13, cloudy,
th sea, temperature 54· New South Wales: Sydney,
, 14, showery, temperature 56·. State of Rivers.—
umbidgee: At Wagga, 6 feet 3 inches above summer level;
y, 2 feet 6 inches above summer level; at Balranald, 3 feet 6
s above summer level. Murray: At Albury, 4 feet 2 inches
summer level; at Euston, 9 feet above summer level.
ng: At Wentworth, 7 feet 6 inches above summer level; at
arie, 1 foot 4 inches above summer level; at Menindi and
unnia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 11, 1886, with NOTES to 3 P.M.

Sydney Observatory.

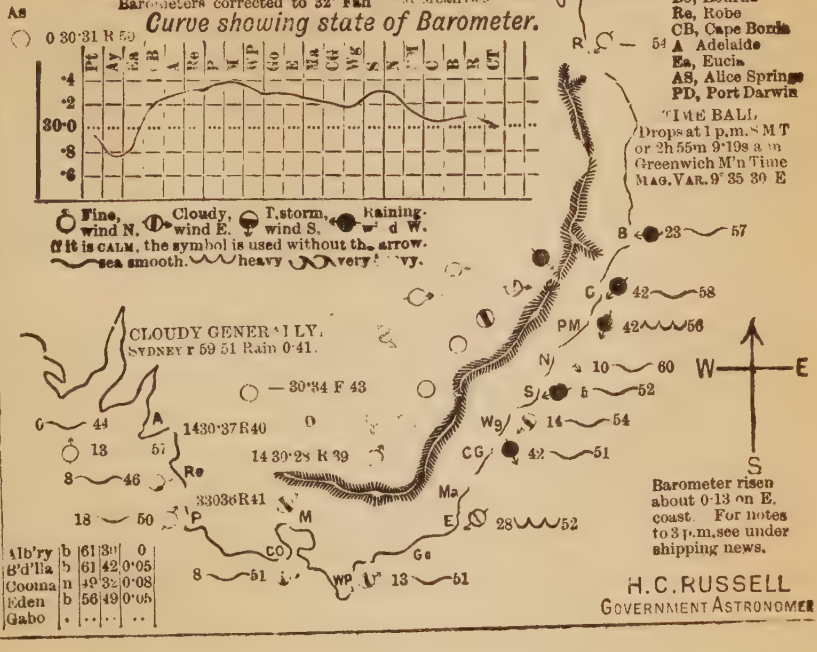
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years . . 51·461
Average for 23 years from Jan. 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 11 . . 21·584.
Barometers corrected to 32° Fah. Mean Sea Level.

Stations.	W't	M'X	M.S	R'in
Casino..	p	65	53	0·37
Centerfild	d	56	35	0·02
Coree....	b	70	48	0
Grafton..	u	70	51	0·33
Gl'n Inn's	c	55	44	0
Inverell..	b	60	30	0
Kourke ..	.	..	.	.
Narrabri	b	63	47	0
Armidale	u	52	30	0
Bendem'r	g	55	47	0
Bunned'h	b	60	53	0
Coonam'le	.	..	..	..
Tamworth	b	65	45	0
Coonab'rn	o	59	32	0
P.Macqrie	r	70	55	3·09
Wilcannia	b	56	41	0
Murr'undi	b	52	48	0
Cassilis..	n	54	32	0
Mus'br'ok	b	56	41	0·13
Dubbo...	b	59	57	0
Menindie	b	57	3	0
Mudgee .	u	66	41	0
Maitland.	b	57	43	0·25
Hill End.	c	49	33	0
Newcastle	b	62	54	0·12
Orange..	b	52	39	0
Bathurst	g	54	42	0
18 52	Ea			
Forb's	b	49	41	0
MtVict'ria	p	45	40	0·15
Condob'ln	.	..	..	..
Picton..	o	64	44	0
Carcoar..	n	52	36	0
Wentw'th	.	..	..	.
Young...	b	56	41	0
Wollgo'ng	c	67	49	0·17
Hay...	b	..	..	0
Moss Vale	r	48	41	0·24
Euston...	f	63	36	0
Goulburn	b	51	38	0·06
Wagga...	n	4	32	0
Cape Geo.	p	58	50	0.10
Queanb'n	b	69	37	0
Deniliq'in	o	58	33	0
Moruya..	.	..	..	..
Kiandra..	c	35	5	0
Albury	b	61	30	0
B'd'lla	b	61	42	0·05
Cooma	n	49	32	0·08
Eden	b	56	49	0·05
Gabo	.	..	..	..

WG, Wollong
CG, Cape Geo
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Bor'a
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N Newc'tle
S, Sydney



H. C. RUSSELL
GOVERNMENT ASTRONOMER

Stations.	wt	M'x	M.)	R'in
asino..	b	73	41	0
enterfild	f	58	30	0·04
oree....	s	77	53	0
rafton..	b	68	45	0
l'n Inn's	b	67	38	0
verell..	b	63	30	0
ourke ..	b	68	49	0·15
arrabri	u	67	48	0
rmidale	u	54	30	0
endem'r	b	61	34	0
unned'h	g	71	30	0
oonam'le	b	67	44	0
amworth	b	65	31	0
oonab'rn	g	65	33	0
.Macqrie	b	64	46	0
Vilcannia	c	62	45	0·11
furr'undi	g	59	45	0
assilis..	u	52	48	0
fus'br'ok	u	61	43	0
ubbo...		..		..
lenindie	f	6	48	0 06
ludgee..	u	68	42	0
laitland.	c	60	46	0
fill End.	c	52	33	0
lewcastle	b	64	43	0.08
range..	b	52	40	0
athurst	f	58	35	0
2 18 54		Ea		
— Forb's	b	59	42	0
ltVict'ria	f	51	40	0
ondob'ln	b	48	39	0
icton..	b	59	33	0
arcoar..	b	2	41	0
ventw'th	b	65	41	0·09
oung...	b	62	41	0
Vollgo'ng	c	66	45	0
Iay....	g	64	31	0
loss Vale	f	49	31	0
uston...	g	61	38	0
oulburn	f	57	33	0
Vagga...	b	55	34	0
ape Geo.	b	56	50	0
ueanb'n	n	63	30	0
enilig'in	b	61	35	0
oruya..		60	42	0
iandra..	f	30	6	0

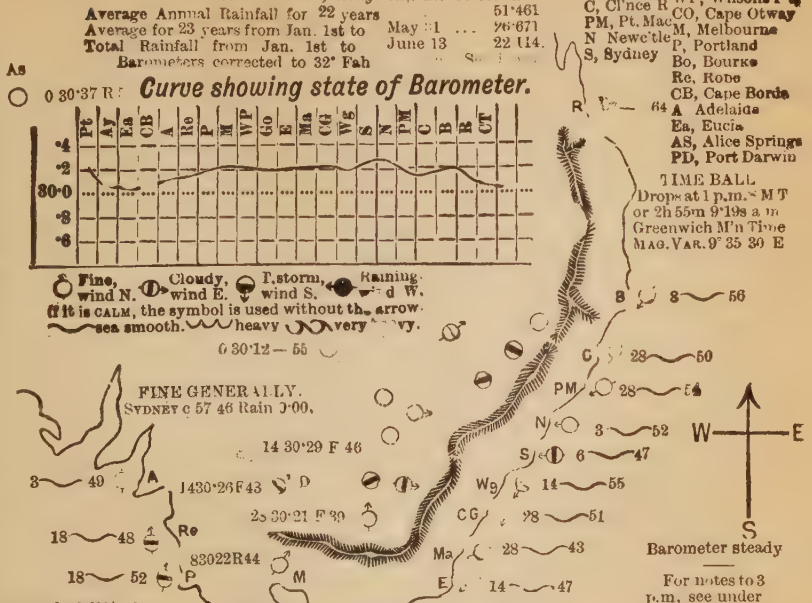
WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 13, 1886, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years 51·461
Average for 23 years from Jan. 1st to May 31 ... 26·671
Total Rainfall from Jan. 1st to June 13 22·114.
Barometers corrected to 32° Fah



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 14.

Western Australia: Albany, cloudy, wind W., fresh, rainfall 2, temperature 52·; Perth, N., fresh, temperature 54·. South ustralia: Fine generally, with wind from N. to N.W. and S.E. t the northern stations; 0·21 rain at Adelaide, 0·40 at Cape Borda, 0·20 at Robe and raining. The barometer is rising to the vestward, weather cloudy and showery: light rains general; ough sea at Cape Borda. Victoria: Fine at Melbourne, raining ghtly at Wilson's Promontory, 0·08 rain fell at Cape Otway, ·02 at Portland; barometer has fallen about ·17; blowing rather trong at Portland, slight sea at Cape Otway. New South Vales: Cloudy generally and calm, raining lightly at Coonabararan; showery at Dubbo, Mount Victoria, Wagga, and Albury; ee weather map; frosty at Cooma, foggy at Cassilis, Bathurst, Deniliquin, Hay, Walcha; the barometer has fallen about ·17 on .E. coast, with slight sea at Eden and Gabo Island. Queensland: Cloudy and threatening at Rockhampton, wind between S.E. and .W.; moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria: Barometers falling; Melbourne, N., 13, cloudy, temperature 57·; Cape Otway, N., 13, gloomy, moderate sea, temperature 1·; Portland, N.W., 34, showery, smooth sea, temperature 54·; Wilson's Promontory, N.E., 13, fine, smooth sea, temperature 55·. Wentworth, N.W., cloudy, like rain, temperature 55·; Albury, calm, cloudy, like rain, temperature 58·; Forbes, calm, fine, temperature 56·; Moruya, S.E., 20, fine, moderate sea, temperature ·; Sydney, N.E., light, cloudy, smooth sea, temperature 58·; Port Macquarie, N.E., 28, fine, clear, smooth sea, temperature ·; Deniliquin, N., 14, dull, like rain, temperature 60·; Goulburn, calm, dull, temperature 57·; Eden, N.E., 14, cloudy, light , temperature 57·; Cape George, N., 28, cloudy, temperature ; Newcastle, W., fine, smooth sea; Clarence River, calm, fine, moderate sea, temperature 65·. New Zealand: Weather generally e; barometers: 29·90 to 30·10. State of Rivers.—Murrumbidgee: At Wagga, 6 feet above summer level. Murray—At Albury, 4 feet 10 inches above summer level; Darling—At Wentworth, 7 feet 5 inches above summer level: at Pooncarie, 1 foot inches above summer level; at Menindie, summer level; at Wilcannia, summer level.

ations.	w't	M'x	Mn	R'in
sino..	b	72	40	0
nterfild	b	58	35	0
oree....	b	71	48	0
afton..	b	72	42	0
'n Inn's	f	61	40	0
verell..	b	61	37	0
urke ..	b	68	41	0
rrabri	c	68	44	0·02
midale	b	55	30	
endem'r	b	59	42	0·01
nned'h	g	71	32	0
onam'le	b	66	42	0 05
mworth	.	..	..	..
onab'rn	r	67	33	0 02
Macqrie	c	64	47	0
ilcannia	c	57	43	0
rr'undi	g	56	45	0 04
ssilis..	f	52	45	0
s'br'ok	b	63	42	0
bbo...	p	60	45	0 01
enindie	c	57	42	0 0[illegible]
udgee..	b	67	40	0
aitland.	c	60	44	0
ill End.	c	50	34	0
ewcastle	g	60	44	0
range..	g	51	38	0.02
thurst	f	55	34	0·04
18 55		Ea		
forb's	b	59	45	0
Vict'ria	p	42	37	0 02
ndob'ln	g	50	39	0
cton..	g	57	35	0
rcoar..	b	52	41	0
entw'th	g	74	44	0·03
ung...	b	54	47	0
ollgo'ng	o	65	43	0
ay....	f	66	33	0
oss Vale	c	50	35	0
iston...	g	62	39	0 04
ulburn	g	56	31	0
agga...	p	56	41	0 09
pe Geo.	b	59	48	0
eanb'n	g	65	38	0
nilliq'in	f	59	39	0 08
oruya..	c	61	..	0
andra..	b	44	20	0 03

WEATHER MAP.

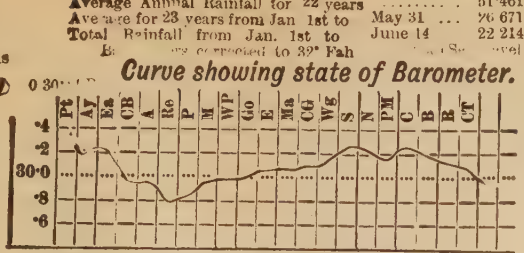
COMPILED from TELEGRAMS for 9 A.M., JUNE 14, 1880, with NOTES to 3 P.M.

Sydney Observatory.

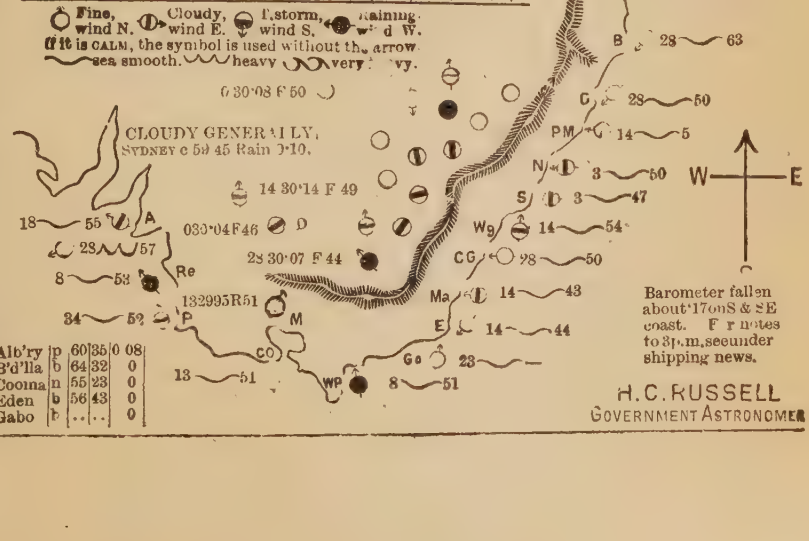
Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan 1st to May 31 ... 26·671
Total Rainfall from Jan. 1st to June 14 22 214.
B[illegible] corrected to 32° Fah [illegible]

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Roma
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9 35 30 E

Barometer fallen about 17 on S & SE coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—June 15.

South Australia: Fine generally, with wind from S.E. in the northern stations, and S.W. in the southern; 0·16 of rain fell at Cape Borda; the barometer has risen about ·11; sea rough at Robe and Cape Borda; heavy rains have fallen at all stations south of Beltana. Daly Waters; barometer 30·16. S.W., 18, cloudy. Victoria: Cloudy, showery at Cape Otway and Portand. with wind from S.W., while it is about W. at Melbourne and Wilson's Promontory; squally at Cape Otway, Portland, and Wilson's Promontory; squally with hail last night at Portland; 0·21 rain at Melbourne, 0.24 at Cape Otway, 0·93 at Portland, 0·67 at Wilson's Promontory; barometer on the turn to commence rising again; sea moderate at Cape Otway. New South Wales: Northern stations fine, also along the coast; wind throughout the colony N. and W. generally; snowing hard at Kiandra; raining at Orange, Young, Carcoar, Hay, Wagga, and Queanbeyan; showery at Mudgee, Mount Victoria, and Albury. (See weather map). Fro ty at Cooma; the barometer has fallen ·31 on the east coast; also smooth sea. Queensland: Cloudy at Cooktown and threatening rain; S.E. wind at Cooktown and Rockhampton, 0·26 rain at the latter station; strong S.W. wind at Brisbane, and rather strong at Cape Moreton from the E., with moderate sea. 3 p.m. Observations.—Victoria, barometers rising: Melbourne, W., 23, squally, temperature 52°; Cape Otway, S.W., 48, squally, with rain, high sea, temperature 52°; Portland, S.W., 48, squally, with rain, sea smooth, temperature 57°; Wilson's Promontory, W., 28, squally, with rain, sea smooth, temperature 48°. New South Wales: Wentworth, S.W., cloudy, threatening, temperature 56°; Albury, S.W., strong, showery, temperature 56°; Forbes, W., 28, cloudy, temperature 52°; Moruya, N.W., 42, cloudy, sea smooth, temperature 60°; Sydney, W.N.W., moderate, cloudy, sea smooth, temperature 59°; Port Macquarie, N., 14, fine, sea smooth, temperature 63°; Deniliquin, W., 28, threatening, temperature 59°; Goulburn, W., raining, temperature 55°; Eden, S.W., 28, cloudy, like rain, light sea, temperature 57°; Cape George, W., 42, cloudy, sea smooth, temperature 60°; Newcastle, W., light, fine, sea smooth; Clarence River, W., fine, sea smooth, temperature 65°. New Zealand: Fine generally. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 3 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 4 feet above summer level. Murray: At Albury, 4 feet 10 inches above summer level; at Euston, 8 feet 2 inches above summer level. Darling: At Wentworth, 7 feet 4 inches above summer level; at Pooncarie, 1 foot 3 inches above summer level; at Menindi, summer level; at Wilcannia, summer level.

Stations.	w't	M'x	M.a	R'in
asino..	b	74	41	0
enterfild	b	59	40	0·10
oree....	b	67	45	0
rafton..	u	72	45	0.46
l'n Inn's	c	57	39	0.51
nverell..	f	60	41	0.21
ourke ..	b	65	44	0
arrabri	b	66	43	0·09
rmidale	u	50	38	0
endem'r	u	61	43	0·03
unned'h	b	74	32	0·39
oonam'le	b	67	40	0·03
amworth	b	67	38	0 40
oonab'rn	b	63	34	0 08
.Macqrie	b	65	48	0
Vilcannia	b	61	47	0
urr'undi	u	58	45	0·76
ssilis..	b	63	46	0
us'br'ok	b	62	44	0
ubbo...	b	60	45	0
enindie	c	62	48	0
udgee..	p	64	42	0 20
aitland.	b	58	47	0 20
ill End.	c	50	31	0·36
ewcastle	b	66	49	0 10
range..	r	50	40	0·45
thurst	u	50	39	0.20
	Ea			
Forb's	g	60	43	0
Vict'ria	p	50	39	0·04
ndob'ln	g	50	39	0·38
ton..	b	56	34	0·06
rcoar..	r	52	47	0·46
entw'th	u	59	47	0 08
ung...	r	55	46	0·25
ollgo'ng	b	69	45	0
ny...	r	61	33	0·13
ss Vale	b	53	41	0
ston...	b	62	46	0 14
ulburn	u	59	32	0·30
gga...	r	54	44	0·36
oe Geo.	b	61	46	0
eanb'n	w	60	35	0
niliq'in	b	59	39	0·25
ruya..	c	61	43	0·18
ndra..	b	34	15	0 50

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 15 1880, with NOTES to 3 P.M.

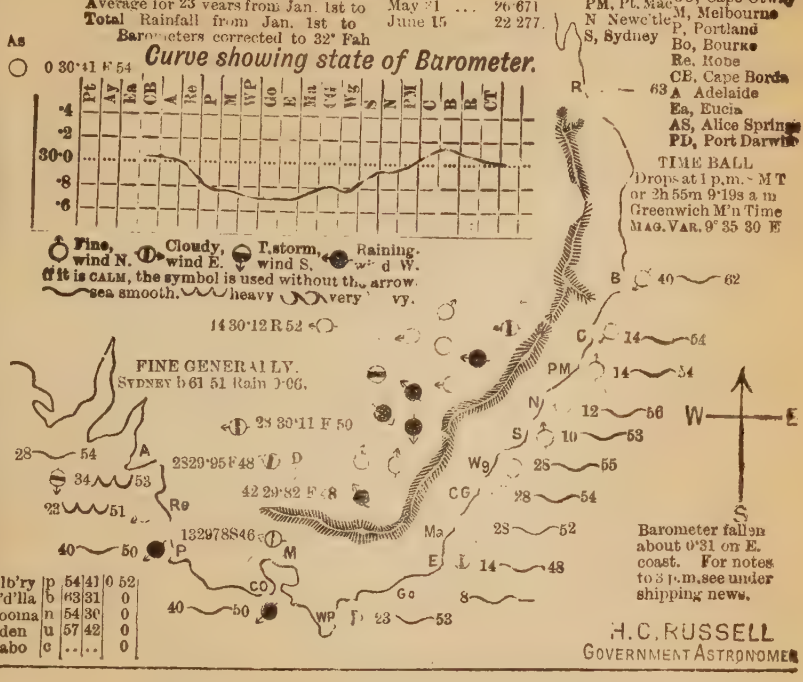
Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 15 22 277.

Barometers corrected to 32° Fah

Curve showing state of Barometer.



Alb'ry	p	54	41	0	52
B'd'lla	b	63	31	0	
Cooma	n	54	30	0	
Eden	u	57	42	0	
Gabo	c	..	..	0	

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—June 16.

estern Australia: Light breeze from the N. at Perth, tempera- 60°, rainfall 0·27, very high sea on coast; Albany, light .W. breeze, temperature 56°, weather fine, and moderate sea ast. South Australia: Fine generally, wind at the northern ns S.E., 0·06 rain fell at Adelaide, 0·09 at Cape Borda, 0·01 at Augusta; the barometer has risen a little since yesterday, rate sea at Cape Bor a, Port Augusta 0·01 rain, gloomy, sea h; Daly Wa ers, Alice Springs, and Port Darwin fine, with winds. Vic oria: Cloudy, showery and squally at Cape y, squally also at Wilson's Promontory, with a high sea, generally between S.S W. and W, blowing strong at Cape y and Wilson's P omontory; the barometer has r sen about ·04 rain fell at Melbourne, 0·38 at Cape Otway, and 0·22 at n's Promontory. New South Wales: Generally cloudy to E. of range, wind about W. and S W., raining at Orange, ery at Coonabarabran, snowing steadily at Kiandra, and ng at Mount Victoria. See Weather Map. Frosty at Cooma; barometer has ri en about ·13, sea rather rough at Gabo d. Queensland: Cloudy at Rockhampton and Cooktown, wind at the latter station, and from S.S.W. to W.S.W. at the s, smooth sea at Cape Moreton. 3 p.m. Observations.—Vic- : Barometers steady. Melbourne:. W.S.W., 23, squally, ay, temperature 54°; Portland, S.W., 23, passing showery, nooth, temperature 55°: Cape Otway, W.S.W., 34, showery, rate sea, temperature 51°; Wilson's Promontory, W.S.W., ually, high sea, temperature 54. New South Wales: Denili- S.W., 14, fine, temperature 58°; Goulburn, W., dull, tem- ure 56°; Forbes, calm, cloudy, temperature 49°; Eden, W., 30, like rain, sea smooth, temperature 57°; Moruya, W., oudy, sea smooth, temperature 62; Cape George, W., 42, sea smooth, temperature 55°; Sydney, W.S.W, fresh, fine, nooth, temperature 56°; Newcastle, W., fine, sea smooth; Macquarie, SW., 42, fine, sea smooth, temperature 62°; nce River, W., 14, fine, sea smooth, temperature 64°. State vers.—Murrumbidgee: At Hay, 4 feet above summer level; nald, 3 feet 9 inches above summer level. Darling: At Went- , 7 feet 3 inches above summer level: Pooncarie, 1 foot 2 s above summer level; Menindie, summer level; Wilcannia, er level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 16 1880, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 16 . 22 177.
Barometers corrected to 32° Fah . . . Sea Level

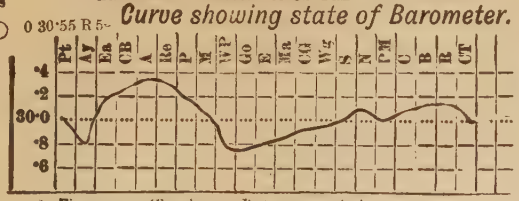
Stations.	Wt	M'x	Mi	Rin
Casino..	b	72	38	0
Tenterfild	b	50	38	0
Moree....	b	68	49	0
Grafton..	b	71	45	0
Gl'n Inn's	c	56	37	0
Inverell..	b	57	32	0
Bourke ..	b	66	42	0
Narrabri	b	63	42	0
Armidale	u	55	36	0·10
Bendem'r	u	57	41	0
Gunned'h	b	70	27	0·03
Coonam'le	b	62	37	0
Tamworth	b	61	35	0·04
Coonab'rn	p	58	34	0·06
P.Macqrie	b	67	48	0
Wilcannia	b	66	44	0
Murr'undi	b	54	43	0·10
Cassilis..	b	50	43	0
Mus'br'ok	b	63	43	0
Dubbo...	b	57	42	0
Menindie	c	68	42	0
Mudgee..	u	60	41	0·09
Maitland.	b	60	46	0
Hill End.	c	50	28	0·05
Newcastle	b	69	45	0
Orange..	r	47	35	0·25
Bathurst	b	49	38	0.11
8 54		Ea		
Forb's	b	60	42	0
Mt Vict'ria	r	43	34	0
Condob'ln	g	43	36	0
Picton..	b	59	35	0·04
Carcoar..	u	48	39	0·20
Wentw'th	b	57	44	0·11
Young...	u	57	39	0·20
Wollgo'ng	b	69	47	0
Hay...	b	55	29	0
Moss Vale	b	51	36	0
Euston...	b	59	37	0
Goulburn	b	50	36	0·22
Wagga...	u	52	37	0·09
Cape Geo.	b	62	50	0
Queanb'n	b	61	35	0·15
Deniliq'in	b	54	34	0·03
Moruya..	c	63	39	0
Kiandra..	b	38	10	2·50

Alb'ry	u	54	38	0·07
B'd'lla	c	64	30	0
Cooma	n	49	29	0
Eden	b	56	45	0·01
Gabo	g	..	..	0·07

As

0 30·55 R 52

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.

28 30·21 R 52

FINE GENERALLY.
SYDNEY b 61 46 Rain 0·00.

28 30·37 R 49

14 30·24 R 40

42 30·03 R 42

13 30·08 R 49

0 — 51 A
13 — 54
28 — 56 Re
28 — 52 P
M
48 — 41 CO
WP 48 — 53
Go 34
E 28 — 53
Ma 14 — 41
CG 42 — 49
Wg 42 — 52
S 8 — 48
N 4 — 52
PM 0 — 52
C 28 — 49
B 8 — 53
R — 56

WG, Wollongong
CG, Cape Geo
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Bord
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N. Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·198 s p.m
Greenwich M'n Time
MAG. VAR. 9 35 30 E

W — E
S

Barometer fallen about 0·13 on E. coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 17.

Western Australia: Perth, fine, fresh breeze from S.S.E., 0·02 rain, temperature 49°, sea smooth; Albany cloudy, temperature 51°. South Australia: Fine generally, with wind between W. and N., except at the northern stations, where it is still from S.E., no rain; the barometer appears to be on the turn again, having risen, ·02 at Alice Springs; smooth sea at Robe and Port Augusta. Victoria: Fine at Melbourne and cloudy at the other stations, wind from W. to N.W.; 0·08 rain fell at Cape Otway and Portland, and 0·01 at Wilson's Promontory; foggy at Melbourne, sea moderate at Wilson's Promontory. New South Wales: Fine generally, wind between S. and W., some cloudy stations W. and S.W. of Sydney, on the west side of range; frosty at Tenterfield, Armidale, Coonabarabran, Mount Victoria, and Cooma; foggy at Deniliquin, high sea at Gabo Island. Queensland: Cloudy and showery at Cooktown, with 1·21 inches of rain up to 9 a.m., wind from the S.E.; a S.W. wind at the remaining stations, and fine weather; sea smooth at Cape Moreton. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, W.N.W., 13, fine, temperature 59°; Portland, N.W., 23, heavy showers, sea smooth, temperature 55°; Cape Otway, N.N.W., 13, gloomy, temperature 57°; Wilson's Promontory, W.N.W., 23, cloudy, squally, moderate sea, temperature 52°. New South Wales: Wentworth, N.N.W., fine, temperature 57°; Deniliquin, calm, cloudy, dull, temperature 59°; Albury, calm, like rain, temperature 55°; Goulburn, W., fine, clear, temperature 55°; Forbes, calm, fine, temperature 55°; Eden, S.W., 42, cloudy, sea smooth, temperature 57°; Moruya, S.E., 14, cloudy, sea smooth, temperature 60°; Cape George, W., 42, fine, sea smooth, temperature 58°; Sydney, W.S.W., fresh, sea smooth, temperature 59°; Newcastle, W., fine, sea smooth; Port Macquarie, S.S.W., 14, fine, sea smooth, temperature ·59; Clarence River, W.N.W., 14, fine, sea smooth, temperature ·62. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 3 inches above summer level; at Hay, 4 feet 6 inches above summer level; at Balranald, 3 feet 9 inches above summer level. Murray: At Albury, 4 feet 6 inches above summer level; at Euston, 7 feet 10 inches above summer level. Darling: At Wentworth, 7 feet 2 inches above summer level; at Pooncarie, 1 foot above summer level; at Menindi, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 17 1886, with NOTES to 3 P.M.

Sydney Observatory.

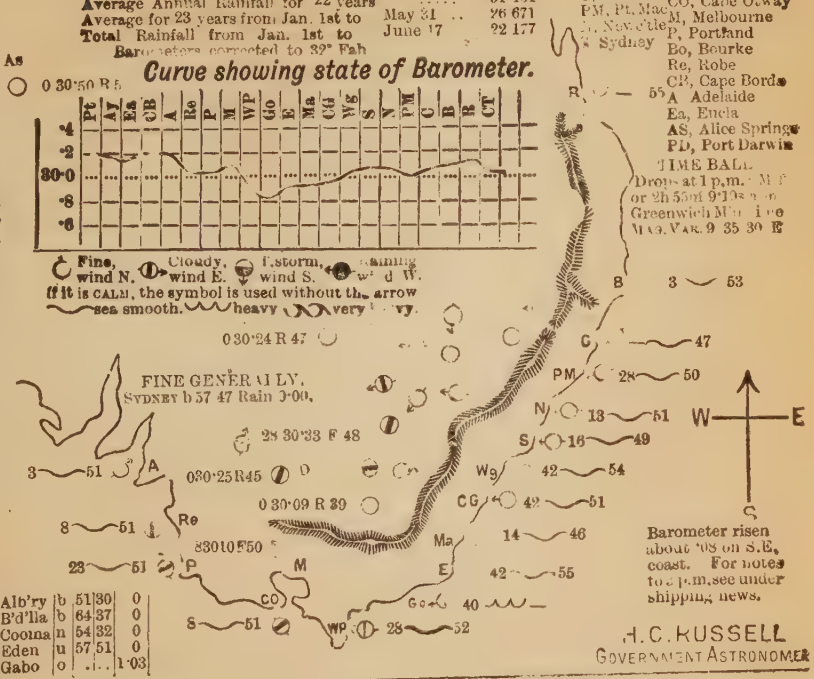
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years	.....	51·461
Average for 23 years from Jan. 1st to	May 31 ..	26 671
Total Rainfall from Jan. 1st to	June 17	22 177

Barometers corrected to 32° Fah

Stations.	W't	M'x	M'n	R'in
Casino..	b	70	30	0
Tenterfield	n	52	29	0
Moree....	b	69	35	0
Grafton..	b	72	41	0
Gl'n Inn's	b	49	23	0
Inverell..	b	53	27	0
Bourke ..	b	61	41	0
Narrabri	b	68	33	0
Armidale	n	56	30	0
Bendem'r	b	51	38	0
Gunned'h	b	66	21	0
Coonam'le	b	60	31	0
Tamworth	b	56	28	0
Coonab'rn	n	55	28	0
P.Macqrie	b	63	40	0
Wilcannia	c	59	43	0
Murr'undi	b	50	36	0
Cassilis	b	52	43	0
Mus'br'ok	t	61	39	0
Dubbo...	b	60	39	0
Menindie	g	60	39	0
Mudgee .	b	60	40	0
Maitland.	b	56	46	0
Hill End.	n	50	26	0
Newcastle	b	66	46	0
Orange..	o	33	36	0
Bathurst	g	44	37	0
13 67		Ea		
Forb's	b	55	47	0
MtVict'ria	n	38	35	0
Condob'ln	b	47	36	0
Picton..	b	54	46	0
Carcoar..	g	43	39	0
Wentw'th	g	60	48	0
Young...	g	51	41	0
Wollgo'ng	b	68	38	0
Hay...	g	56	30	0
Moss Vale	b	46	37	0
Euston...	c	60	37	0
Goulburn	g	45	38	0
Wagga...	o	49	36	0
Cape Geo.	b	57	46	0
Queanb'n	b	53	33	0
Deniliq'in	f	56	34	0·01
Moruya..	b	64	41	0
Kiandra..	r	40	10	0 70

Alb'ry	b	51	30	0
B'd'lla	b	64	37	0
Cooma	n	54	32	0
Eden	u	57	51	0
Gabo	o	..	..	1·03



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 18.

ıth Australia: Fine rains have fallen south of Beltana and the ranges. Victoria: Showery at Melbourne and Cape y: 0·37 rain at Melbourne, 0·25 at Cape Otway, 0·20 at Port- 0·11 at Wilson's Promontory, cloudy at Portland and Wil- Promontory, wind generally from W. to S.W.; the baro- r has fallen about ·04, moderate sea at Cape Otway and Wil- Promontory. New South Wales: Fine generally, with between S.W. and N.W.; raining lightly at Wentworth steadily at Euston; heavy fall of snow at Kiandra (see her map); frosty at Tenterfield, Moss Vale, Queanbeyan, and ıa; the barometer has risen about ·03 on the east coast. moderate at Gabo Island. Queensland: Fine, with light ze from S.W.; no rain, smooth sea at Cape Moreton. .m. Observations.—Victoria: Barometers steady; Port-, S.W., 28, cloudy, sea smooth, temperature 51·; Cape Otway., 18, cloudy, rough sea, temperature 50·; Wilson's Promon-, W.S.W., 34, squally, with rain, rough sea, temperature 50·; South Wales: Wentworth, S.S.E., cloudy, temperature 57·; liquin, calm, raining, temperature 58·; Albury, calm, raining, ɔerature 58·; Goulburn, W., cloudy, temperature 55·; Forbes, ı, cloudy, temperature 51·; Eden, S.W., 10, cloudy, sea ɔth, temperature 55·; Moruya, N., cloudy, sea smooth, tem- ture 62·; Cape George, W., 20, fine, sea smooth, temperature Sydney, N.W., 14, cloudy, sea smooth, temperature 55·; Port quarie, E., fine, sea smooth, temperature 58·; Clarence River, fine, temperature 60·; Menindie, S.W., fine. New Zealand, :her stormy and unsettled. State of Rivers.—Murrumbidgee: Wagga, 7 feet 6 inches above summer level; at Hay, 5 feet 're summer level; at Balranald, 4 feet 7 inches above summer l. Murray: At Albury, 3 feet 9 inches above summer level; Euston, 7 feet 8 inches above summer level. Darling: At ıtworth, 7 feet above summer level; at Pooncarie, 10 inches ve summer level; at Menindie, summer level; at Wilcannia, mer level.

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., JUNE 18 1886, with **NOTES** to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 18 . 22 177.
Barometers corrected to 32° Fah and Mean Sea Level.

Stations.	wt	M'x	M'n	R'in
Casino..	b	74	29	0
Tenterfild	n	54	21	0
Moree....	b	65	44	0
Grafton..	b	64	50	0
Gl'n Inn's	b	55	20	0
Inverell..	b	53	25	0
Bourke ..	c	61	42	0
Narrabri	b	59	37	0
Armidale	u	55	26	0
Bendem'r	b	52	30	0
Gunned'h	b	63	46	0
Coonam'le	.	..	..	.
Tamworth	c	56	30	0
Coonab'rn	c	54	33	0
P.Macqrie	b	63	40	0
Wilcannia	u	58	46	0
Murr'undi	b	51	37	0
Cassilis..	b	52	39	0
Mus'br'ok	b	57	38	[illegible]
Dubbo...	b	60	39	0
Menindie	u	59	42	0
Mudgee .	c	59	36	0
Maitland.	b	56	40	0
Hill End.	c	50	26	0
Newcastle	b	65	42	0
Orange..	g	45	39	0
Bathurst	b	47	31	0
		Ea		
Forb's	g	59	39	0
MtVict'ria	n	43	33	0
Condob'ln	b	49	36	0
Picton..	.	..	..	.
Carcoar..	c	48	36	0
Wentw'th	r	63	45	0·06
Young...	o	51	42	0
Wollgo'ng	b	64	47	0
Hay.....	g	58	31	0
Moss Vale	n	49	35	0
Euston...	r	62	42	0
Goulburn	b	49	33	0
Wagga...	b	51	39	0
Cape Geo.	b	60	43	0
Queanb'n	n	55	32	0
Deniliq'in	g	57	39	0
Moruya..	c	65	43	0
Kiandra..	b	25	11	0

Alb'ry	g	59	37	0·02
B'd'lla	b	66	37	0
Cooma	n	53	24	0
Eden	c	57	45	0
Gabo	c	.	..	0

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R,Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. M.T.
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9 35 30 E

Barometer risen about ·08 on S.E. coast. For notes to 3 p.m. see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 20.

South Australia: Adelaide, reports fine, clear weather, no wind, barometer rising; rain, 0·150. Victoria: Cloudy, squally, and showery all round coast, with rising barometers and high sea. Rain: Wilson's Promontory, 0·610; Portland, 0·370; and Melbourne, 0·540. New South Wales: Fine, clear weather is reported from all the coast stations, with cool westerly winds, slowly falling barometers, and smooth sea; raining inland at Murrurundi, Mudgee, and Young, and snowing slightly at Kiandra (for rainfall see weather map); barometers rising W. of Range; Singleton, maximum 62, minimum 34, wind W., 56 miles. Queensland: Brisbane, fine, with light S.W. wind, rising barometer, and moderate sea; Rockhampton, fine, wind S.W.; Cooktown, fine, fresh, S.E. wind, no rain. 3 p.m. Observations.—Victoria: Melbourne, S.W., 23, showery, with squalls, temperature 51·; Cape Otway, S., 13, gloomy, high sea, temperature 51·; Portland, S., 23, misty, rough sea, temperature 52; Wilson's Promontory, S.W., 48, squally, rough sea, temperature 51·. New South Wales: Wentworth, S., cloudy, temperature 51·; Albury, S.W., dull, temperature 52·; Forbes, calm, fine, temperature 50·; Moruya, S.W., 20, fine, sea moderate, temperature 58·; Sydney, W., 28, fine, sea smooth, temperature 55·; Port Macquarie, W.S.W., 42, fine, sea smooth, temperature 59; Menindie, S.W., fine, temperature 54·; Deniliquin, calm, fine, temperature 54·; Goulburn, W., cloudy, temperature 52·; Eden, W.S.W., 42, showery, sea smooth, temperature 53·; Cape George, W., 42, fine, sea smooth, temperature 54·; Newcastle, W., fine, sea smooth; Clarence River, W., 14, fine, sea smooth, temperature 60·. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 9 inches above summer level; at Hay, 6 inches above summer level; at Balranald, 6 inches above summer level. Murray: At Albury, 4 feet above summer level; at Euston, 7 inches above summer level. Darling: At Wentworth, 6 feet 11 inches above summer level; at Pooncarie, 10 inches above summer level.

WEATHER MAP.

COMPILED from Telegrams for 9 A.M., JUNE 20 1889, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s. E*

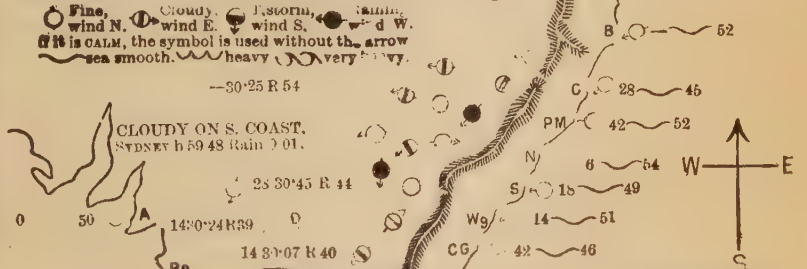
Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 20 . 22 187.
Ba[illegible] reduced to 32° Fah

Stations.	wt	M'x	M.l	R'in
Casino..	b	71	32	0
Tenterfild.	b	54	21	0
Moree....	g	60	35	0
Grafton..	b	71	36	0
Gl'n Ina's	b	52	31	0
Inverell..	g	51	27	0
Bourke ..	b	59	47	0
Narrabri	c	58	37	0
Armidale	g	56	27	0
Bendem'r	r	..	.	.
Gunned'h	.	.	..	..
Coonam'le	c	57	37	0
Tamworth	c	55	35	0
Coonab'rn	g	53	33	0
P.Macqrie	b	65	44	0
Wilcannia	c	57	41	0
Murr'undi	r	51	40	0·05
Cassilis..	b	51	41	0
Mus'br'ok	b	60	44	0
Dubbo...	b	58	42	0
Menindie	b	57	44	0
Mudgee..	p	64	40	0
Maitland.	b	55	45	0
Hill End.	c	49	27	0·15
Newcastle	b	66	47	0
Orange..	b	47	36	0·78
Bathurst	b	46	43	0·07
		Ea		
Forb's	b	59	37	0
MtVict'ria	n	40	33	0·24
Condob'ln	b	48	39	0·11
Picton..	b	56	39	0
Carcoar..	g	45	38	0·50
Wentw'th	b	58	41	0·03
Young...	r	51	42	0·39
Wollgo'ng	b	69	46	0
Hay....	b	55	29	0
Moss Vale	b	45	38	0
Euston...	n	52	32	0
Goulburn	b	50	34	0·14
Wagga...	g	53	26	0·40
Cape Geo.	b	59	42	0
Queanb'n	n	51	30	0
Deniliq'in	n	53	32	0·54
Moruya..	b	62	39	0
Kiandra..	s	46	17	0·08

Alb'ry	c	53	29	0·71
B'd'lla	b	68	30	0
Cooma	n	53	29	0
Eden	b	58	46	0·15
Gabo	q	.	..	0·02

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Storm, wind S. Rain, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cape R
PM, Pt. Mac
N, Newc'tle
S Sydney

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer risen about 0·20 on S. coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 21.

Western Australia: Perth, E.N.E., 23 miles, fine, barometer 30·14, temperature 50·, sea smooth; Albany, N., 3 miles, fine, barometer 30·08, temperature 48·, sea very smooth. South Australia reports barometers high and still rising, weather cloudy and gloomy, light rain in places, smooth sea round the coast, wind fresh from S.E. and N.E.; Daly Waters; fine, wind S.E., 8, barometer 30·19; rain—Adeiaide 0·050, Cape Borda 0·02; weather on N. coast fine, sea smooth, wind light from S.E., barometer 29·99. Victoria: Dull and threatening at Cape Otway, showery at Portland, fine and clear at Melbourne and Wilson's Promontory, smooth sea, rising barometers, and moderate southerly winds round coast; rain at Portland, 0·100. New South Wales: Cloudy and very threatening weather on coast S. of Jervis Bay, the sea being heavy and the wind strong from S., and rain falling at Eden and inland at Cooma; weather fine, clear, and cold up N.; barometers rising slowly; weather cold and rather unsettled inland, wind W. and S.W. Queensland: Fine weather, wind light from S.W., sea moderate: light S.E. wind and fine weather at Cooktown. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, cloudy. temperature 51·; Cape Otway, S.S.E., 8, cloudy, sea moderate, temperature 53·; Portland, S.S.E., 28, cloady, sea light, temperature 52·; Wilson's Promontory, S., 18, fine, sea moderate, temperature 50·. New South Wales: Wentworth, S., cloudy, temperature 50·; Forbes, calm, fine, temperature 59·; Sydney, S., 1·5, fine, sea smooth, temperature 58·; Port Macquarie, S.S.W., 42, fine, sea smooth, temperature 51·; Menindie, S.W., cloudy, temperature 53·; Deniliquin, calm, fine, temperature 57·; Goulburn, W., fine, temperature 77·; Eden, S.W., 42, cloudy, sea rough, temperature 55·; Cape George, W.S.W., 56, dull, sea heavy, temperature 55·; Newcastle, W., dull, sea moderate; Clarence River, W., 14, fine, sea smooth, temperature 60·. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 6 inches above summer level; at Hay, 5 feet above summer level; at Balranald, 6 feet 6 inches above summer level. Murray: At Albury, 4 feet 6 inches above summer level; at Euston, 6 feet 10 inches above summer level. Darling: At Wentworth, 6 feet 10 inches above summer level; at Pooncarie, Menindi, and Wilcannia, summer level.

WEATHER MAP.

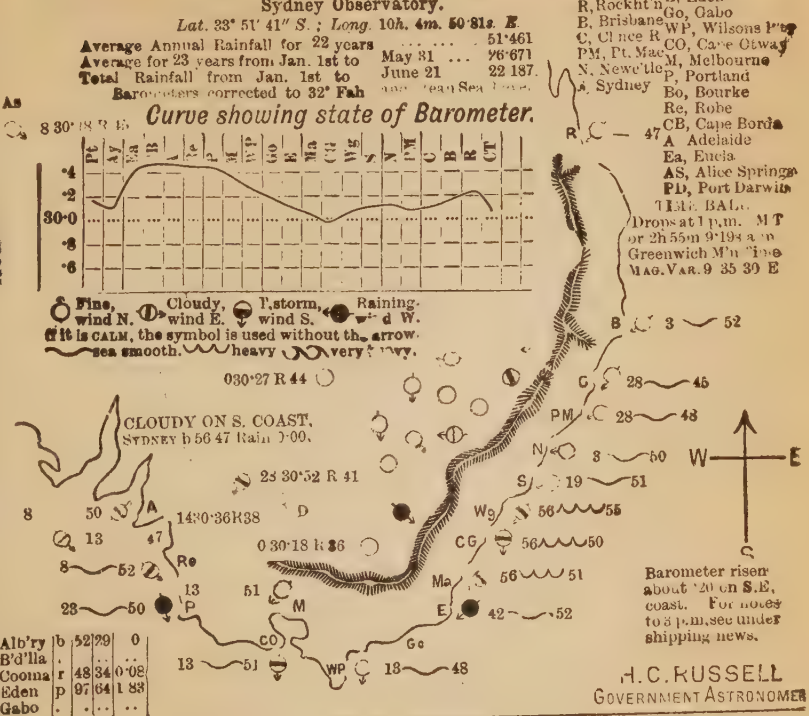
COMPILED from TELEGRAMS for 9 A.M., JUNE 21 1886, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to May 31 ... 26·671
Total Rainfall from Jan. 1st to June 21 22 187.
Barometers corrected to 32° Fah and mean Sea Level.

Stations.	W'T	M'X	M.	R'in
Casino..	b	71	26	0
Tenterfild.	b	51	26	0
Moree....	b	60	36	0
Grafton..	b	68	45	0
Gl'n Inn's	n	49	34	0
Inverell..	b	51	24	0
Bourke ..	b	61	39	0
Narrabri	b	56	30	0
Armidale	g	47	29	0
Bendem'r	,	..	..	.
Gunned'h	.	.	..	..
Coonam'le	b	57	33	0
Tamworth	b	56	27	0
Coonab'rn	b	55	31	0
P.Macqrie	b	63	29	0
Wilcannia	b	55	40	0
Murr'undi	b	50	38	0
Cassilis..	b	52	37	0
Mus'br'ok	c	62	37	0
Dubbo...	b	59	40	0
Menindie	b	57	37	0
Mudgee .	b	65	37	0
Maitland.	g	51	45	0
Hill End.	b	48	26	0
Newcastle	b	64	45	0
Orange..	b	42	33	0·04
Bathurst	b	43	34	0
Forb's	g	56	35	0
Mt Vict'ria	b	39	33	0
Condob'ln	b	45	38	0
Picton..	b	54	45	0
Carcoar..	g	48	36	0·06
Wentw'th	g	57	35	0
Young...	n	50	36	0
Wollgo'ng	c	67	64	0
Hay....	b	53	26	0
Moss Vale	c	45	36	0
Euston...	b	56	30	0
Goulburn	b	45	35	0
Wagga...	f	45	34	0
Cape Geo.	g	58	40	0
Queanb'n	b	58	33	0
Deniliq'in	n	58	32	0
Moruya..	g	62	41	0·64
Kiandra..	b	45	25	0
Alb'ry	b	52	29	0
B'd'lla	.		..	..
Cooma	r	48	34	0·08
Eden	p	97	64	1 83
Gabo	.		..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—June 22.

Western Australia: Perth, N.N.E., 18 miles, lightning in S.S.W., aromer 30.03, temperature 47°, sea smooth; Albany, fair wind .W., 3 miles, barometer 29·94, temperature 51°, sea very smooth. outh Australia: Cloudy at Cape Borda and Adelaide, but no rain alling, smooth sea all round coast, with light variable winds and teady barometers; Daly Waters, fine wind fresh from S.W., arometer 30.11; Port Darwin, fine wind S.E., 8, barometer 30·06, emperature 70°. Victoria: Cloudy, with fresh southerly winds, rising barometers, and smooth sea; rain, Portland, 0·040. New South Wales: Fine north of Sydney and at majority of inland stations, cloudy and threatening on coast southwards, barometers rising, sea heavy, wind strong from S., showery at Eden, very frosty and cold inland. Queensland reports fine clear weather, with light S.W. wind, rising barometers, and moderate sea. 3 p.m. Observations.—Victoria: Melbourne, S.W., 8, fine, temperature 53°; Portland, S.E., 34, cloudy, slight sea, temperature 56°; Cape Otway, S.E., 8, cloudy, moderate sea, temperature 53°; Wilson's Promontory, S., 23, cloudy, moderate sea, temperature 51°. New South Wales: Wentworth, S., fine, temperature 51°; Deniliquin, calm, fine, temperature 59°; Albury, calm, fine, temperature 54°; Goulburn, W., fine, temperature 58°; Forbes, calm, fine, temperature 59°; Eden, S.W., 42, showery, temperature 56°; Cape George, S., 56, fine, heavy sea, temperature 57°; Sydney, S.S.W., 18, cloudy, moderate sea, temperature 56°; Newcastle, S.W., dull, heavy sea; Port Macquarie, S.S.W., 56, fine, moderate sea, temperature 60°; Clarence River, W., 14, fine, moderate sea, temperature 60°; Menindi, S.W., fine, temperature 55°. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 11 inches above summer level; at Hay, 4 inches above summer level; at Balranald, 7 feet 8inches above summer level. Murray: At Albury, 4 feet 6 inches above summer level; at Euston, 7 feet 4 inches above summer level. Darling: At Wentworth, 6 feet 10 inches above summer level; at Pooncarie, 9 inches above summer level; at Menindi, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 22 1886, with NOTES to 3 P.M.

Sydney Observatory.

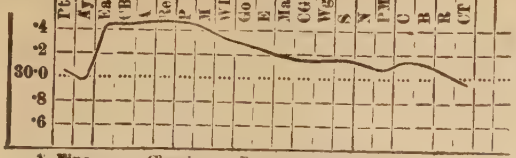
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 22 . 22 187.
Barometers corrected to 32° Fah . . . Mean Sea Level.

Stations	W't	M'x	M.n	R'in
Casino..	b	72	31	0
Tenterfild	b	53	20	0
Moree....	b	66	33	0
Grafton..	f	71	36	0
Gl'n Inn's	b	50	24	0
Inverell..	b	47	25	0
Bourke ..	n	59	39	0
Narrabri	b	58	35	0
Armidale	n	46	23	0
Bendem'r	,	.	.	.
Gunned'h	b	65	18	0
Coonam'le	b	56	34	0
Tamworth	b	60	27	0
Coonab'rn	n	57	24	0
P.Macqrie	b	61	46	0
Wilcannia	b	50	38	0
Murr'undi	b	53	36	0
Cassilis..	n	54	27	0
Mus'br'ok	g	59	35	0
Dubbo...	n	58	38	0
Menindie	b	58	49	0
Mudgee .	n	68	31	0
Maitland.	b	60	47	0
Hill End.	b	48	27	0
Newcastle	b	67	47	0
Orange..	n	47	30	0
Bathurst	n	52	28	0
13 49		Ea		
Forb's	n	52	34	0
MtVict'ria	g	46	36	0
Condob'ln	b	46	37	0
Picton..	b	59	44	0
Carcoar..	n	46	33	0
Wentw'th	b	55	36	0
Young...	n	51	35	0
Wollgo'ng	c	71	49	0
Hay....	b	57	22	0
Moss Vale	c	51	35	0
Euston...	n	56	31	0
Goulburn	b	54	28	0
Wagga...	n	53	29	0
Cape Geo.	c	56	49	0
Queanb'n	b	56	34	0
Deniliq'in	n	55	29	0
Moruya..	g	60	48	0
Kiandra..	b	43	24	0

Alb'ry	n	59	27	0
B'd'lla	b	61	45	0
Cooma	n	47	32	0
Eden	p	55	48	0·14
Gabo	.	.	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.

14 30·26 F 44

CLOUDY GENERALLY.
SYDNEY g 60 48 Rain 0·00.

23 30·50 F 40

030·37R36

14 30·25 R 35

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. N.T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometer risen about ·10 on S.E. coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORT.—JUNE 23.

Western Australia: Perth, fine, S.E., 18, barometer 30·19, temperature 49·, smooth sea, rain 0·020; Albany, threatening, N.W., 8, barometer 30·07, temperature 50·, smooth sea, rain 0·080. South Australia reports fine clear weather, barometers still high, winds light and variable, no rain; Port Augusta, fine, N., 8, barometer 30·450; Port Darwin, fine, S.E., 18, barometer 29·93, temperature 68·; Daly Waters, fine, S.W., 18, barometer 30·180; Streaky Bay, N., 8, fine, barometer 30·470. Victoria: Cloudy all round the coast, with fresh southerly and easterly winds, moderate sea, and high barometers on coast, the latter rising slightly, no rain, dense fog and hoar frost at Melbourne this morning. New South Wales: Weather continues fine up N. and at many of the inland stations, but on coast at Sydney and southwards the weather is both very threatening and showery at some places, and the sea heavy. For rainfall, &c., see weather map, barometers about the same as yesterday. Queensland: Fine, with light S.W. winds, rising barometer, and moderate sea. 3 p.m. Observations. —Victoria: Cape Otway, S.S.E., 8, cloudy, moderate sea, temperature 51·; Melbourne, S., 8, cloudy, temperature 51·; Portland, S.E., 23, cloudy, smooth sea, temperature 54·; Wilson's Promontory, S.S.W., 18, fine, moderate sea, temperature 51. New South Wales: Wentworth, S.W., fine, cold, temperature 52·; Albury, calm, fine, temperature 57·; Forbes, calm, fine, temperature 55·; Moruya, S.W., cloudy, heavy sea, temperature 57.; Sydney, S.S.W., 18, cloudy, smooth sea, temperature 55·; Port Macquarie, S.S.W., 56, fine, heavy sea, temperature 61·3; Menindie, S.W., 14, fine, temperature 55·; Deniliquin, calm, fine, temperature 58·; Goulburn, S.W., dull, temperature 57·; Eden, S.W., 28, showery, heavy sea, temperature 55·; Cape George, S., 56, showery, heavy sea, temperature 57·; Newcastle, S.W., raining, heavy sea; Clarence River, W., 28, fine, moderate sea, temperature 61·5.—State of Rivers.—Murrumbidgee: At Wagga, 6 feet 3 inches above summer level; at Hay, 3 feet 6 inches above summer level; at Balranald, 7 feet 8 inches above summer level. Murray: At Albury, 4 feet 3 inches above summer level; at Euston, 7 feet 9 inches above summer level. Darling: At Wentworth, 6 feet 7 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 23 1886, with NOTES to 3 P.M.

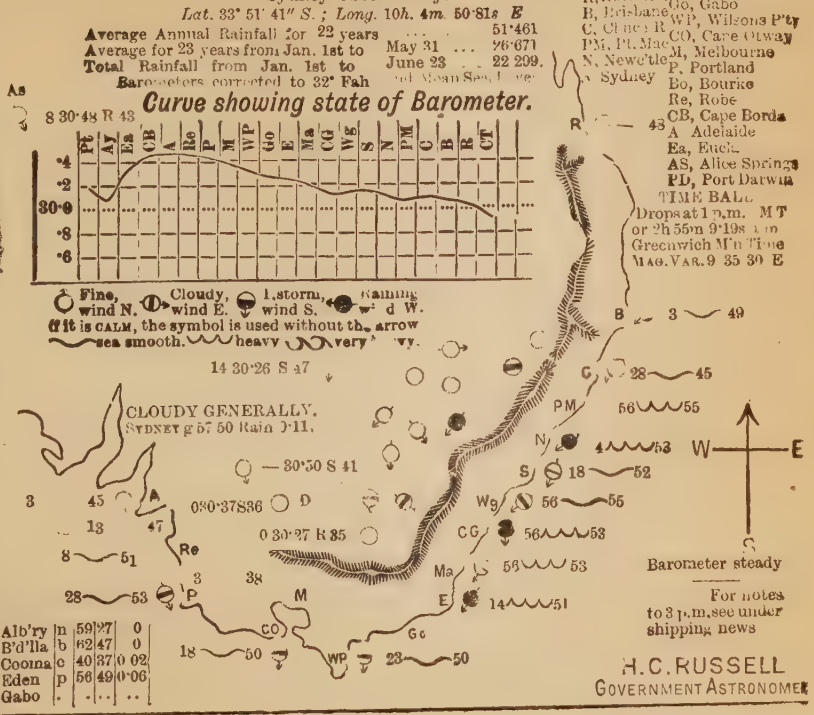
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ... 51·461
Average for 23 years from Jan. 1st to May 31 ... 26·671
Total Rainfall from Jan. 1st to June 23 ... 22 209.
Barometers corrected to 32° Fah and Mean Sea Level.

Stations.	W'th	M'x	M.a	R'in
Casino..	b	72	33	0
Tenterfild.	b	55	22	0
Moree....	b	70	38	0
Grafton..	b	70	38	0
Gl'n Inn's	n	57	27	0
Inverell..	b	67	33	0
Bourke ..	b	60	39	0
Narrabri	b	58	56	0
Armidale	g	48	24	0
Bendem'r	.	..	..	.
Gunned'h	c	64	22	0
Coonam'le	b	60	35	0
Tamworth	b	62	21	0
Coonab'rn	g	58	24	0
P.Macqrie	b	63	51	0
Wilcannia	b	56	36	0
Murr'undi	g	51	42	0
Cassilis..	b	55	30	0
Mus'br'ok	g	59	37	0
Dubbo...	b	58	39	0
Menindie	n	55	37	0
Mudgee..	n	68	32	0
Maitland.	r	54	52	0·05
Hill End.	b	50	27	0
Newcastle	p	63	45	0·29
Orange..	b	47	32	0
Bathurst	b	53	32	0
☾ 23 46		Ea		
Forb's	b	60	31	0
Mt Vict'ria	g	45	37	0
Condob'ln	b	46	36	0
Picton..	.	..	..	0
Carcoar..	n	47	35	0
Wentw'th	b	56	35	0
Young...	b	53	35	0
Wollgo'ng	c	63	50	0·05
Hay....	b	57	22	0
Moss Vale	c	50	40	0·03
Euston...	n	59	35	0
Goulburn	g	53	35	0
Wagga...	b	52	31	0
Cape Geo.	p	59	47	0·17
Queanb'n	b	56	40	0
Deniliq'in	n	55	30	0
Moruya..	g	58	48	0
Kiandra..	b	43	34	0

Alb'ry	n	59	27	0
B'd'lla	b	62	47	0
Cooma	c	40	37	0·02
Eden	p	56	49	0·06
Gabo	.	.	..	..



WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 24 1880, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 24 . . . 22·898.
Ba[illegible] to 32° Fah [illegible]

Stations.	Wt	M'x	M.T.	R'in
Casino..	b	71	30	0
Tenterfild	b	56	24	0
Moree....	b	70	38	0
Grafton..	b	72	46	0
Gl'n Inn's	n	59	29	0
Inverell..	b	56	28	0
Bourke ..	b	62	41	0
Narrabri	b	59	37	0
Armidale	b	50	24	0
Bendem'r	..	.	.	.
Gunned'h	o	60	20	0
Coonam'le	b	61	34	0
Tamworth	b	61	30	0
Coonab'rn	n	60	24	0
P.Macqrie	q	62	51	0 25
Wilcannia	b	54	38	0
Murr'undi	g	52	46	0 05
Cassilis..	n	56	32	0
Mus'br'ok	g	59	41	0
Dubbo...	b	57	39	0
Menindie	n	57	37	0
Mudgee	f	69	30	0
Maitland.	g	58	50	0
Hill End.	b	49	26	0
Newcastle	b	62	45	0·58
Orange..	n	49	33	0
Bathurst	n	54	29	0 04
18 51		Ea		
Forb's	n	61	32	0
MtVict'ria	g	44	36	0 02
Condob'lin	b	46	36	0
Picton..	n	58	43	0
Carcoar..	n	49	32	0
Wentw'th	b	56	34	0
Young...	n	53	33	0
Wollgo'ng	c	62	50	0
Hay....	b	59	22	0
Moss Vale	b	57	36	0 05
Euston...	n	61	32	0
Goulburn	b	51	34	0 05
Wagga...	b	54	29	0
Cape Geo.	p	61	48	0 12
Queanb'n	b	40	29	0
Deniliq'in	n	57	29	0
Moruya..	g	59	48	0
Kiandra..	n	48	21	0

Alb'ry	n	61	29	0
B'd'lla	c	62	43	0
Cooma	c	50	36	0 03
Eden	b	54	48	0·19
Gabo	[illegible]	[illegible]	[illegible]	[illegible]

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

R, Rockh'm
B, Brisbane
C, Clunce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

Curve showing state of Barometer.

Pt Ay Ka [illegible] Ea [illegible] Ea [illegible] Ea

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 25 1889, with NOTES to 3 P.M.

Sydney Observatory.

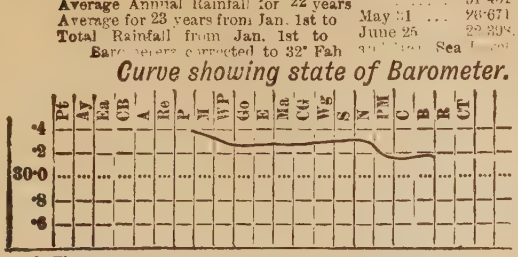
Lat. 33° 51′ 41″ *S.* ; *Long* 10*h.* 4*m.* 50·81*s E*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 25 . . . 22·808
Barometers corrected to 32° Fah. Sea Level.

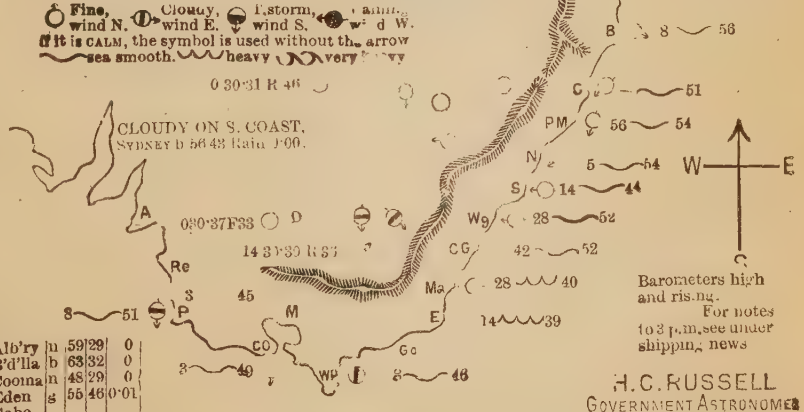
Stations.	W't	M'x	M.	R'in
Casino..	b	68	43	0
Tenterfild	n	58	22	0
Moree....	b	70	37	0
Grafton..	n	69	43	0
Gl'n Ins's	b	58	25	0
Inverell..	b	55	29	0
Bourke ..	b	62	40	0
Narrabri	n	60	38	0
Armidale	b	52	24	0
Bendem'r	..	..	..	.
Gunned'h	..	..	..	.
Coonam'le	b	61	32	0
Tamworth	b	61	29	0
Coonab'rn	n	54	22	0
P.Macqrie	b	59	50	0
Wilcannia	..	..	..	.
Murr'undi	b	54	31	0
Cassilis..	n	56	30	0
Mus'br'ok	n	61	34	0
Dubbo...	b	55	35	0
Menindie	..	..	..	..
Mudgee .	f	71	30	0
Maitland.	b	58	42	0
Hill End.	b	48	25	0
Newcastle	b	60	46	0·06
Orange..	n	56	28	0
Bathurst	fn	51	23	0
		Ea		
Forb's	n	54	29	0
MtVict'ria	n	45	29	0·01
Condob'ln	b	44	34	0
Picton..	n	57	28	0
Carcoar..	n	47	29	0
Wentw'th	..	..	..	..
Young...	n	54	34	0
Wollgo'ng	b	60	40	0
Hay...	n	58	20	0
Moss Vale	b	43	31	0
Euston...	g	53	32	0
Goulburn	b	52	24	0
Wagga...	n	50	29	0
Cape Geo.	b	59	46	0
Queanb'n	n	60	30	0
Deniliq'in	n	55	27	0
Moruya..	b	59	39	0
Kiandra..	c	42	20	0
Alb'ry	n	59	29	0
B'd'lla	b	63	32	0
Cooma	n	48	29	0
Eden	g	55	46	0·01
Gabo	.	..	..	..

As

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Storm, wind S. Fair, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy



Barometers high and rising.
For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 27.

Western Australia: Perth, cloudy, strong, S.S.E. wind: Albany, cloudy, fresh, W.N.W. wind; temperature 58° and 57°. South Australia reports the weather generally fine and the barometers falling at every station on coast, the winds are light from N., and the sea smooth; for the last two or three days heavy dews have fallen, and the mornings have been very frosty and the evenings foggy; Port Darwin, fine, N., 18; Daly Waters, fine, S.E., 18; Port Augusta, fine, N., 18; Streaky Bay, fine, N., 18. Victoria: Cloudy at Wilson's Promontory and Otway; weather appears generally fine, no rain has been measured, the sea is smooth, and the barometers are steady, while the wind is light from N., N.N.W., and N.E. New South Wales: Fine and clear throughout colony, nearly all the stations, especially the inland ones, report severe frosts, and Kiandra's minimum records as low as 19 degrees below zero; for other minimum temperature see weather map; light S.W. winds prevail on coast, and the sea is smooth; barometers high and still rising. Queensland: Fine, light S.W. wind, moderate sea, rising barometers. 3 p.m. Observations.—Victoria: Barometers falling; Melbourne, N.N.E., 13, fine, clear, temperature 51°; Portland, N.N.W., 40, fine, sea smooth, temperature 53°; Cape Otway, N., cloudy, temperature 55°; Wilson's Promontory, W.N.W., 8, fine, sea smooth, temperature 53°. New South Wales: Wentworth, N., fine, temperature 51°; Deniliquin, W., 2, fine, temperature 55·2: Albury, calm, fine, temperature 49°; Goulburn, calm, fine, temperature 53°, Forbes, calm, fine, temperature 47°; Eden, E.N.E., 28, fine, light, temperature 54°; Cape George, S.E., 14, fine, sea smooth, temperature 57; Sydney, E.N.E., 14, fine, sea smooth, temperature 54·9; Newcastle, E., fine, sea moderate; Port Macquarie, S.E., 14, fine, sea smooth, temperature 59·8: Clarence River, S.W., showery, sea moderate, temperature 62°: Menindie, S., fine, temperature 50·5. State of Rivers.—Murrumbidgee: At Wagga, 5 feet above summer level. Murray: At Albury, 3 feet 3 inches above summer level. Darling: At Wentworth, 7 feet 7 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 27 1889 with NOTES to 3 P.M.

Sydney Observatory.

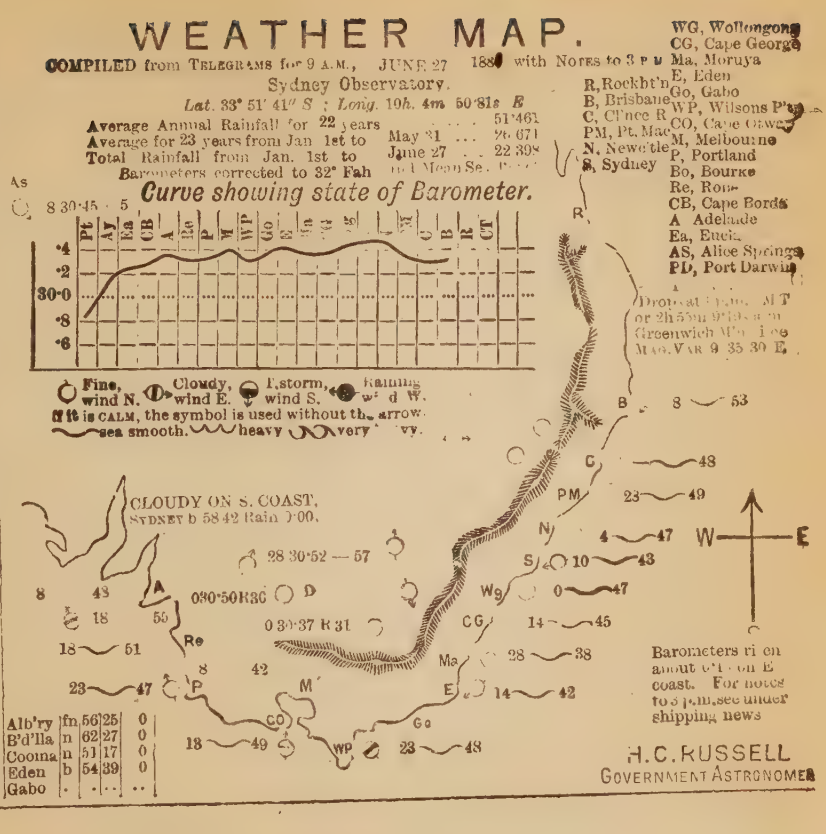
Lat. 33° 51′ 41″ S ; *Long.* 10*h.* 4*m.* 50·81*s* E

Average Annual Rainfall for 22 years . . . 51·461
Average for 23 years from Jan 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 27 . . 22·398
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W'th	M'x	Mo	R'in
Casino..	b	72	35	0
Tenterfild	n	58	24	0
Moree....	b	71	35	0
Grafton..	n	66	41	0
Gl'n Ina's	f	67	33	0
Inverell..	b	55	27	0
Bourke ..	..	..	..	..
Narrabri	b	62	34	0
Armidale	n	51	23	0
Bendem'r	..	..		
Gunned'h	b	68	17	0
Coonam'le	b	64	28	0
Tamworth	b	63	26	0
Coonab'rn	n	60	20	0
P.Macqrie	b	63	44	0
Wilcannia	c	50	33	0
Murr'undi	..	..	..	..
Cassilis..	n	55	20	0
Mus'br'ok	n	60	29	0
Dubbo...	n	56	37	0
Menindie	n	52	31	0
Mudgee .	n	71	28	0
Maitland.	b	58	37	0
Hill End.	b	48	23	0
Newcastle	b	64	40	0
Orange..	n	43	26	0
Bathurst	n	53	21	0
		Ea		
Forb's	n	55	27	0
Mt Vict'ria	n	45	30	0·01
Condob'ln	b	43	34	0
Picton..	n	55	28	0
Carcoar..	b	48	25	0
Wentw'th	n	57	30	..
Young...	n	55	32	0
Wollgo'ng	b	64	37	0
Hay....	n	55	15	0
Moss Vale	n	47	26	0
Euston...	b	63	29	0
Goulburn	b	54	20	0
Wagga...	n	51	26	0
Cape Geo.	b	63	39	0
Queanb'n	n	54	27	0
Deniliq'in	n	56	24	0
Moruya..	b	59	36	0
Kiandra..	n	30	.	0

Alb'ry	fn	56	25	0
B'd'lla	n	62	27	0
Cooma	n	51	17	0
Eden	b	54	39	0
Gabo	.	.	..	..

Curve showing state of Barometer.



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 28.

Western Australia: Perth, showery, with strong westerly wind; Albany, showery, light N.W. wind. South Australia: Reports stormy weather; barometers falling, strong northerly gale on coast, sea high; cloudy weather extends inland as far as 2nd parallel of latitude; Port Darwin, calm and fine; Daly Waters, fine, light S.E. wind; Streaky Bay, showery, strong S.W. wind. Victoria: Weather gloomy and threatening, sea moderate, barometers falling, wind strong from N.; squally at Melbourne; dull threatening weather coming up from W. at Wilson's Promontory; no rain. New South Wales: Fine at majority of inland stations (see weather map); very frosty and cold in the morning, light W. and N.W. winds; falling barometers, unsettled weather, and smooth sea on coast; no rainfall. Queensland: Fine and clear, light S.W, winds, rising barometers, and moderate sea. 3 p.m. Observations.—Victoria: Barometers falling fast; Melbourne, N., 28, cloudy, temperature 50·; Cape Otway, N., 56, gloomy, moderate sea, temperature 49·; Portland, N.N.W., 48, squally, light rain, moderate sea, temperature 52·; Wilson's Promontory, N.E., 34, gloomy, squally, moderate sea, temperature 50·. New South Wales: Wentworth, N.W., dull, temperature 53·; Albury, calm, dull, temperature 50·; Forbes, calm, cloudy, temperature 47·; Moruya, N., 28, gloomy, moderate sea, temperature 56·7; Sydney, N., 14, dull, moderate sea, temperature 58·1; Port Macquarie, N.E., 28, fine, smooth sea, temperature 61·8; Menindie, N.W. gale, overcast, temperature 53·5; Deniliquin, N.N.E., 14, cloudy, temperature 52·8; Goulburn, N.W., dull, temperature 53·; Eden, N.N.W., 28, like rain, light sea, temperature 55·; Cape George, N., 28, cloudy, smooth sea, temperature 57·; Newcastle, W., fine, smooth sea; Clarence River, N.E., 14, cloudy, smooth sea, temperature 64·. Barometers falling rapidly in Victoria, with northerly gale; indications are for change of wind to W. and W.S. to-morrow (Wednesday), on the south coast, Adelaide to Melbourne; and light general rain in the southern parts of New South Wales, wind W. to S.W. State of Rivers:—Murrumbidgee: At Wagga, 4 feet 6 inches above summer level; at Hay, 6 feet 6 inches above summer level; at Balranald, 6 feet 3 inches above summer level. Murray: At Albury, 3 feet 3 inches above summer level; at Euston, 9 feet 5 inches above summer level. Darling: At Wentworth, 7 feet 9 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 28 1880, with NOTES to 3 P.M.

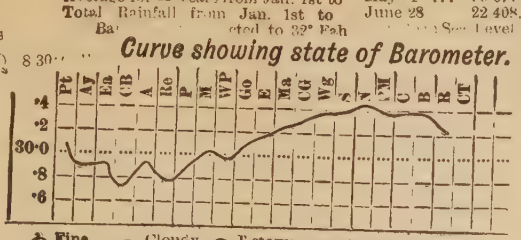
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

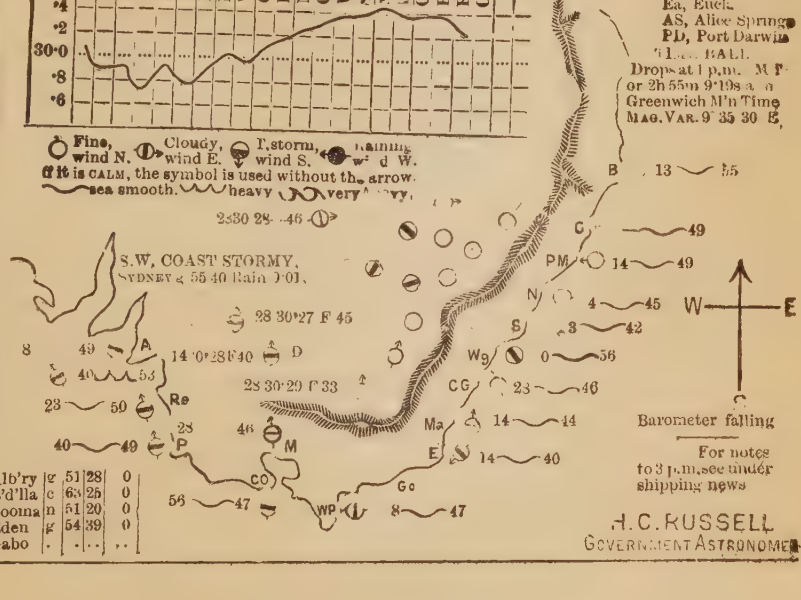
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to May 31 ... 26·671
Total Rainfall from Jan. 1st to June 28 22 408.
Ba[illegible] cted to 32° Fah [illegible] Sea Level

Stations.	w't	M'x	M.n	R'in
Casino..	b	73	34	0
Tenterfild	b	53	21	0
Moree....	b	73	42	0
Grafton..	b	65	44	0
Gl'n Inn's	..	..	.	..
Inverell..	b	55	27	0
Bourke ..	c	60	38	0
Narrabri	b	63	36	0
Armidale	b	52	25	0
Bendem'r	..	.	.	.
Gunned'h	g	71	27	0
Coonam'le	c	67	31	0
Tamworth	c	65	27	0
Coonab'rn	n	61	24	0
P.Macqrie	b	63	43	0
Wilcannia	g	50	36	0
Murr'undi	o	54	35	0
Cassilis..	n	51	23	0
Mus'br'ok	n	58	29	0
Dubbo...	n	56	36	0
Menindie	g	55	36	0
Mudgee..	n	71	26	0
Maitland.	b	55	37	0
Hill End.	b	48	23	0
Newcastle	b	64	39	0
Orange..	g	43	28	0
Bathurst	g	54	23	0
18 59	Ea			
Forb's	b	57	28	0
Mt Vict'ria	g	46	30	0
Condob'ln	b	43	34	0
Picton..	g	51	25	0
Carcoar..	g	45	29	0
Wentw'th	o	58	36	0
Young...	g	56	34	0
Wollgo'ng	c	66	42	0
Hay....	g	50	13	0
Moss Vale	n	47	31	0
Euston...	g	60	29	0
Goulburn	g	56	23	0
Wagga...	g	48	30	0
Cape Geo.	b	58	41	0
Queanb'n	n	53	26	0
Deniliq'in	g	51	32	0
Moruya..	g	59	36	0
Kiandra..	g	49	15	0
Alb'ry	g	51	28	0
B'd'lla	c	63	25	0
Cooma	n	51	20	0
Eden	g	54	39	0
Gabo	.	.	.	.

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JUNE 29.

Western Australia : Perth, showery with light N.E. wind, sea smooth ; rain, 0·180 ; Albury, raining, light S.W. wind ; rain, 0·370. South Australia reports moderate rains to have fallen S. of Port Augusta, and the weather still threatening. The barometers rose in night, but were falling at 9 a.m. Rough sea on coast, wind N. and N.W. Rain : Adelaide, 0·160 ; Cape Borda, 0·200 ; Robe, 0·300 ; Port Darwin, fine, S.E., 8 ; Streaky Bay, showery, N.W., 8, rain 0·260. Victoria : Fine weather prevails round the coast, with fresh N.W. winds and rough sea. Barometers show a rise of ·150 on yesterday morning. Rain at Portland, 0·290, and Cape Otway, 0·050. New South Wales : Cloudy all over colony ; light rains have fallen in the Riverina district, and at Albury rain is still falling ; elsewhere the weather is gloomy, but without rain ; on the coast the barometers are falling, the sea is smooth, and the wind light from N.W. Queensland : Cloudy at Brisbane ; fine, N., at Rockhampton ; moderate sea on coast ; wind at Brisbane, N.E., 66 miles. 3 p.m. Observations.—Victoria : Barometers steady ; Melbourne, N., 13, fine, temperature 54· ; Cape Otway, N., 18, gloomy, rough sea, temperature 55· ; Wilson's Promontory, N.W., 23, squally, moderate sea, temperature 50·. New South Wales : Wentworth, N., fine, temperature 57· ; Deniliquin, N.N.W., 14, fine, temperature 60· ; Albury, calm, fine, temperature 55· ; Goulburn, N.W., dull, temperature 59· ; Forbes, calm, cloudy, temperature 54· ; Eden, N.N.E., 28, fine, light sea, temperature 60· ; Moruya, S.W., 28, gloomy, smooth sea, temperature 62·3 ; Cape George, N.E., 42, cloudy, smooth sea, temperature 59· ; Sydney, N.N.E., 14, cloudy, smooth sea, temperature 58·2 ; Newcastle, calm, dull, smooth sea ; Port Macquarie, N.W., 14, dull, smooth sea, temperature 61·2 ; Clarence River, W., 14, cloudy, smooth sea, temperature 61· ; Menindie, N.E., light, fine, temperature 57·5. State of Rivers.—Murrumbidgee : At Balranald, 6 feet 7 inches above summer level. Murray : At Euston, 9 feet 7 inches above summer level. Darling : At Wentworth, 7 feet 10 inches above summer level ; at Pooncarie, summer level ; at Menindi, summer level ; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 29 1880, with NOTES to 3 P.M.

Sydney Observatory.

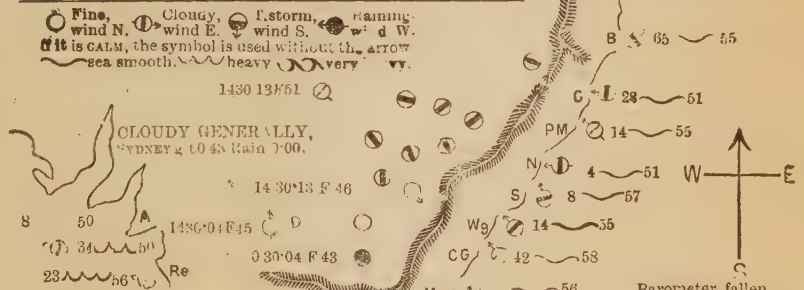
Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to May 31 . . . 26·671
Total Rainfall from Jan. 1st to June 29 . 22 410
Barometers corrected to 32° Fah . . Lat. S . . .

Stations	w't	M'x	Ma	R'in
Casino..	c	61	37	0
Tenterfild	g	59	34	0
Moree....	g	70	58	0
Grafton..	b	67	46	0
Gl'n Inn's	g	61	39	0
Inverell..	g	59	27	0
Bourke ..	c	68	44	0
Narrabri	g	67	36	0
Armidale	g	55	24	0
Bendem'r	..	..	..	.
Gunned'h	c	72	45	0
Coonam'le	c	69	38	0
Tamworth	c	66	36	0
Coonab'rn	g	63	30	0
P.Macqrie	g	66	53	0
Wilcannia	g	59	40	0
Murr'undi	g	59	36	0
Cassilis..	g	58	36	0
Mus'br'ok	g	63	33	0
Dubbo...	c	57	38	0
Menindie	g	57	39	0
Mudgee .	g	64	33	0
Maitland.	g	57	40	0
Hill End.	b	49	24	0
Newcastle	g	64	40	0
Orange..	g	46	32	0
Bathurst	g	50	28	0
13 52	Ea			
Forb's	g	64	43	0
MtVict'ria	g	47	39	0
Condob'ln	g	59	40	0
Picton..	g	52	27	0
Carcoar..	g	45	33	0
Wentw'th	b	58	41	0 03
Young...	g	55	36	0
Wollgo'ng	g	62	49	0
Hay....	g	52	22	0 11
Moss Vale	b	48	34	0
Euston...	b	59	40	0
Goulburn	g	53	28	0
Wagga...	g	48	33	0
Cape Geo.	c	59	51	0
Queanb'n	b	50	30	0
Deniliq'in	g	52	38	0 06
Moruya..	g	67	43	0
Kiandra..	s	30	7	0
Alb'ry	r	50	41	0 09
B'd'lla	c	42	29	0
Cooma	c	46	36	0
Eden	c	55	40	0
Gabo	.	.	..	..

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
PM, Pt. Mac
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometer fallen about 0·20 on E. coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER.

METEOROLOGICAL REPORTS.—JUNE 30.

Western Australia: Perth, fine with light easterly wind and smooth sea, rain 0·020; Albany, gloomy, light N.W., and slight sea; temperature 53·; rain, 0·020. South Australia reports a heavy storm with much rain on coast last night, wind at 9 a.m. still blowing a gale; rain very light N. of the range; sea heavy; barometers at 9 a.m. rising. Rain: 0·500 at Adelaide; Cape Borda, 1·190; Streaky Bay, cloudy and squally, strong W.S.W. wind, rain 0·490; Port Darwin, cloudy, light S.E. wind, and smooth sea. Victoria: Cloudy round coast, wind strong from N.W.; barometers falling; sea moderate; heavy showers falling at Portland; squally but fine at Melbourne. Rain: Portland, 0·720. New South Wales: Cloudy at majority of stations; raining at Gunnedah and Mount Victoria; smooth sea; falling barometers and fresh N. wind, with clear fine weather on coast; light rains have fallen at Gunnedah, Coonabarabran, Cassilis, Mudgee, and Albury, for amounts see weather map. Queensland: Weather cloudy, wind strong from S. and S.E.; barometers falling; sea moderate. 3 p.m. Observations.—Victoria: Melbourne, N.W., 18, fine, temperature 52·; Wilson's Promontory, N., 34, light rain, rather rough sea, temperature 45·; Cape Otway, N.W., 40, squally, showery, rather rough sea, temperature 46·; Portland, W., 23, showery, smooth sea, temperature 48·. New South Wales: Wentworth, N.W., squally, raining, temperature 54·; Albury, calm, cloudy, temperature 57·; Goulburn, N.W., fine, temperature 62·: Forbes, calm, fine, temperature 61·; Eden, N.N.W., 28, fine, light sea, temperature 61·; Moruya, S.W., 56, squally, moderate sea, temperature 63·9; Cape George, N., 28, fine, smooth sea, temperature 63·; Sydney, N.N.W., 28, fine, smooth sea, temperature 65·7; Newcastle, N.W., fine, smooth sea; Port Macquarie, N.E., 28, fine, smooth sea, temperature 63·7; Clarence River, W., 14, dull, smooth sea, temperature 62·: Menindie, S.W., gale, fine, temperature 58·. New Zealand: Barometer 30·50 on N.W. coast, 30·00 on S.E. coast; weather fine. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 3 inches above summer level. Murray—At Albury, 3 feet above summer level. Darling—At Wentworth, 8 feet above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JUNE 30 1880, with NOTES to 3 P.M.

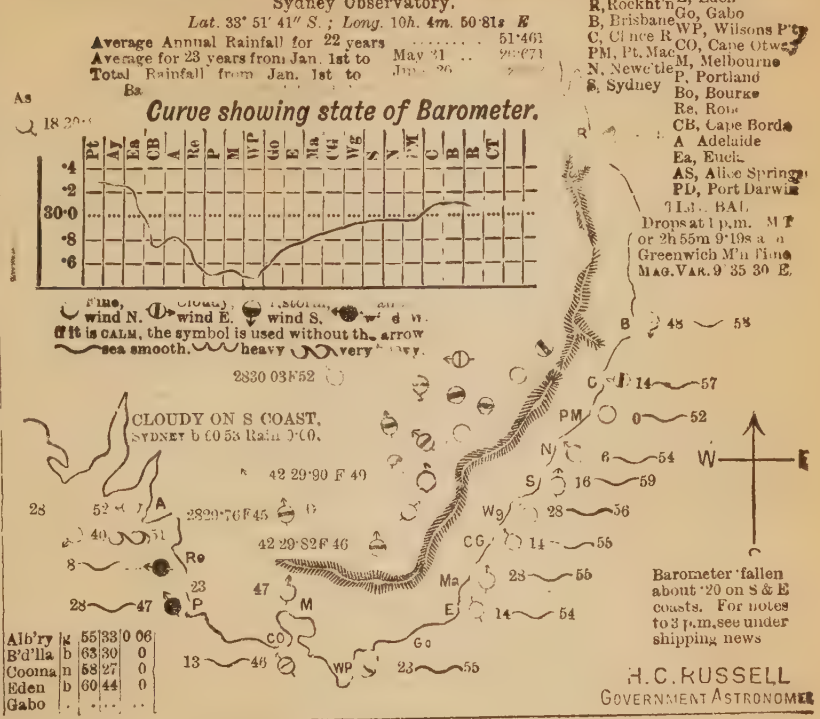
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·463
Average for 23 years from Jan. 1st to May 31 .. 29·671
Total Rainfall from Jan. 1st to June 30 .....

Stations.	W't	M'x	M.T	R'in
Casino..	c	73 46		0
Tenterfild	g	60 37		0
Moree....	b	68 54		0
Grafton..	g	64 53		0
Gl'n Inn's	g	64 37		0
Inverell..	g	60 43		0
Bourke ..	b	65 47		0
Narrabri	g	64 51		0
Armidale	b	55 26		0
Bendem'r	..	..		
Gunned'h	r	65 38	0	03
Coonam'le	c	59 46	0	18
Tamworth	c	65 34		0
Coonab'rn	g	59 44	0	40
P.Macqrie	b	63 50		0
Wilcannia	b	60 44		0
Murr'undi	g	58 51		0
Cassilis..	b	58 41	0	23
Mus'br'ok	g	64 43		0
Dubbo...	c	58 47		0
Menindie	b	63 39		0
Mudgee..	g	63 32	0	18
Maitland.	b	57 47		0
Hill End.	c	53 25		0
Newcastle	b	63 51		0
Orange..	c	49 46		0
Bathurst	g	54 39		0
18 55		Ea		
Forb's	c	63 28		0
Mt Vict'ria	p	53 43		0
Condob'ln	b	52 42		0
Picton..	.	..	..	.
Carcoar..	b	49 40		0
Wentw'th	b	64 44		0
Young...	g	59 36		0
Wollgo'ng	b	60 51		0
Hay....	g	53 42		0
Moss Vale	b	54 43		0
Euston...	..	.	..	..
Goulburn	b	58 37		0
Wagga...	b	52 35		0
Cape Geo.	b	62 47		0
Queanb'n	b	57 34		0
Deniliq'in	g	58 40		0
Moruya..	b	64 47		0
Kiandra..	b	50 20		0

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
R, Rockht'n
B, Brisbane
Go, Gabo
WP, Wilsons P't
C, Clence R
CO, Cape Otway
PM, Pt. Mac
M, Melbourne
N, Newc'tle
P, Portland
S, Sydney
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin



Alb'ry	g	55	33	0 06
B'd'lla	b	63	30	0
Cooma	n	58	27	0
Eden	b	60	44	0
Gabo	.	..	..	..

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 1.

Western Australia: Fine, clear, with light winds and smooth sea. South Australia reports cloudy weather, barometers rising rapidly; rains have been general again, fresh westerly winds on coast; Streaky Bay, fine, S.S.W., 8; Port Augusta, fine, N., 8; Daly Waters, fine, S.E., 8; rain Adelaide, 0·180; Cape Borda, 0·170. Victoria: Weather cloudy and squally round the coast, sea rough, wind fresh from W., barometers rising rapidly; rain — Melbourne, 0·130; Otway, 0·950: Portland, 0·420; Wilson's Promontory, 0·830. New South Wales: Fine at majority of stations, especially on coast S. of Clarence River; sea smooth, wind moderate, from W., barometers falling; light rains have fallen, for which see weather map. Queensland reports fine clear weather, light W. and S. winds, sea moderate. 3 p.m. Observations.—New South Wales: Wentworth, S.W., cloudy, temperature 54°; Albury, calm, fine, temperature 57°; Forbes, calm, cloudy, temperature 60°; Moruya, N.E., 14, fine, smooth sea, 59·8; Sydney, S.W., 28, fine, smooth sea, temperature 56·6; Port Macquarie, S.W., 42, fine, smooth sea, temperature 61·8; Menindie, S.W., fine, 56°; Deniliquin, W.N.W., 28, fine, temperature 58°; Goulburn, W., fine, temperature 56.5; Eden, S.W., 42, fine, light sea, temperature 55°; Cape George, W., 42, fine, smooth sea, temperature 56°; Newcastle, N.W., fine, smooth sea. State of Rivers.—Darling, at Wentworth, 8 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 1 1886, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*, *Long* 10*h.* 4*m* 50·91*s* *E*

Average Annual Rainfall for 22 years		51·46
Average for 23 years from Jan. 1st to	June 30	30·997
Total Rainfall from Jan. 1st to	July	2·41

Barometers reduced to 32° Fah.

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy

Stations.	w't	M'x	M'n	R'in
Casino..	b	67	38	0
Tenterfild	b	63	36	0 10
Moree....	..	..	..	.
Grafton..	b	56	50	0
Gl'n Inn's	n	58	33	0 03
Inverell..	b	60	31	0
Bourke ..	b	67	43	0
Narrabri	b	65	39	0 14
Armidale	b	55	34	0 07
Bendem'r	..	..	..	.
Gunned'h	.	..	..	.
Coonamble	b	64	34	0
Tamworth	b	62	35	0 21
Coonab'rn	g	58	38	0 03
P.Macqrie	b	69	48	0
Wilcannia	b	59	41	0
Murr'undi	b	58	40	0
Cassilis..	b	60	43	0
Mus'br'ok	b	66	43	0
Dubbo...	b	58	43	0
Menindie	b	59	39	0
Mudgee..	g	62	31	0
Maitland.	b	64	30	0
Hill End.	c	52	27	0
Newcastle	b	69	..	0
Orange..	s	52	34	0 15
Bathurst	g	58	38	0 03
13 50	Ea			
Forb's	g	62	39	0
Mt Vict'ria	c	51	33	0
Condob'lin	g	49	38	0
Picton..	.	..	..	.
Carcoar..	r	59	35	0 22
Wentw'th	g	58	38	0 04
Young...	r	58	42	0 13
Wollgo'ng	b	72	45	0
Hay....	b	56	28	0
Moss Vale	b	56	37	0
Euston...	b	58	36	0
Goulburn	g	57	36	0
Wagga...	g	52	39	0 13
Cape Geo.	n	66	43	0
Queanb'n	b	57	37	0
Deniliq'in	b	55	35	0
Moruya..	b	66	43	0
Kiandra..	s	45	15	0
Alb'ry	g	52	41	0 04
B'd'lla	n	68	28	0
Cooma	n	54	20	0
Eden	b	61	43	0
Gabo	.	.	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, C'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. M.T.
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometers risen about 0·20 on S. coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 2.

Western Australia: Perth, heavy showers, strong N.W. wind, rain 0·460; Albany, squalls from N., thunder in the west. South Australia reports weather still showery, barometers low in west of colony, with gale and rain, rising barometers on coast; Streaky Bay, fresh S.E. wind, fine; Port Darwin, S.E., 18, fine, 30·060. Rain: Adelaide, 0·050; Cape Borda, 0·370. Daly Waters, fine, light S.E. wind; Port Augusta, fine and calm. Victoria reports squally showery weather round coast, wind strong from W. and N.W., barometers rising, sea rough. Rain: Otway, 0·610: Portland, 0·350; Wilson's Promontory, 0·920. New South Wales: Fine, clear, frosty weather prevails, especially on coast, where the wind is light from W., barometers rising and sea smooth, raining inland at Young and Carcoar, and very dull and threatening in Riverina districts, at Deniliquin, Albury, Wentworth, &c. Queensland: Brisbane, fine, light S.W. wind, smooth sea, barometer rising; Cooktown, strong S.E. wind, weather fine, no rain. 3 p.m. Observations.—Victoria: Barometers steady; Portland, W., 34, cloudy, smooth sea, temperature 57°; Cape Otway, W., 40, squally, with rain, high sea, temperature 54°; Wilson's Promontory, W., 48, squally, with rain, rough sea, temperature 52°. New South Wales: Wentworth, N.W., fine, few clouds, temperature 51°; Deniliquin, calm, cloudy, threatening, temperature 59°; Albury, W., cloudy, temperature 59°; Goulburn, W., fine, temperature 58°; Eden, N.W., 14, fine, sea smooth, temperature 60°; Moruya, N.W., 14, fine, temperature 65°; Cape George, W., 20, fine; Sydney, W.S.W., 20, fine, clear, temperature 60°; Clarence River, E., 14, fine, temperature 62°; Menindie, calm, fine. A very unusual fall in the barometer has taken place at Western Australia, accompanied by strong N.W. winds and rain. New Zealand: Very strong N.W. winds on the West Coast of New Zealand; barometer 30·00 in North Island, and 29·10 in South Island. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 3 inches above summer level; at Balranald, 7 feet 9 inches above summer level. Murray: At Albury, 2 feet 10 inches above summer level; at Euston, 9 feet 11 inches above summer level. Darling: At Wentworth, 8 feet 2 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; Wilcannia, summer level.

WEATHER MAP.

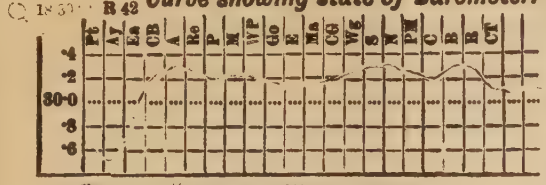
COMPILED from TELEGRAMS for 9 A.M., JULY 2 1886, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10h. 4m 50 81s *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·927
Total Rainfall from Jan. 1st to July 2 ... 22·912.
Barometers corrected to 32° Fah

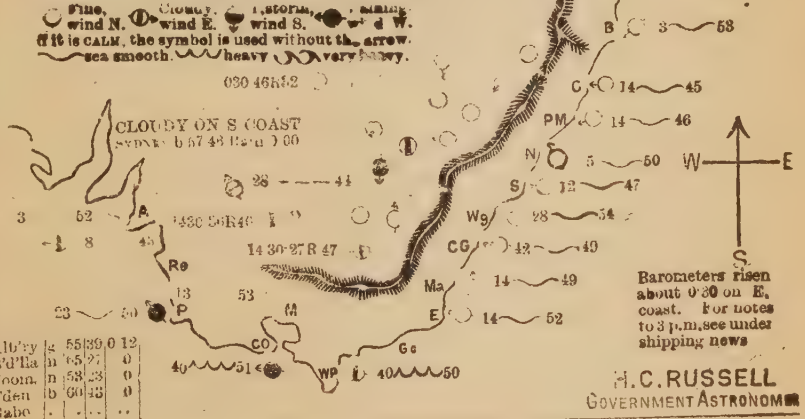
Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Storm, wind S. Rain, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.

ations.	W't	M'S	S.	Fin
ino..	b	70 27		0
nterfield	b	52 21		0
ree....	b	65 33		0
ufton...	b	64 38		0
n Inn's	n	49 19		0
ereli...	b	60 24		0
urke ..	b	60 37		0
rrabri	n	59 34		0
mndale	n	53 25		0
ndem'r	..	..	..	
nned'h	..	..	..	
onam'le	b	56 22		0
nworth	..	..	..	
onab rn	n	54 76		0
Macqrie	b	63 41		0
ilcannia	b	59 41		0
irr'undi	b	51 36		0
ssths	n	51 27		0
us'br'ok	b	57 34		0
abbo...	n	59 36		0
enindie	n	61 9		0
idgee	b	57 35		0
aitland.	b	59 43		0
ill End.	b	52 26		0
ewcastle	b	70 41		0
range.	g	4 31	0	62
athurst	g	45 28		0
34 41	Ea			
Forb's	c	64 38		0
tcVict'ria	n	40 3		0
ondob'in	b	48 37		0
icton..	.	.		
arcoar	r	4 35	0	7
entw'th	c	50 1		0
oung...	r	54 28	0	3
Vollgo'ng	b	62 47		0
Hay...	b	54 37		0
loss Vale	n	46 34		0
Custon...	b	53 44		0
Goulburn	g	47 3		0
Wagga...	g	49 41	0	04
Cape Geo.	o	59 44		0
Queanb'n	p	64 35		0
Deniliq'in	h	54 42	0	02
Moruya..	b	64 42		0
Kiandra..	s	46,16	0	30

Alb'ry	g	55	39	0 12
B'd'lla	n	65	27	0
Coom.	n	58	23	0
'den	b	60	33	0
Gabo	.	.	..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 4.

South Australia reports cloudy weather, but no rain falling, smooth sea, rising barometers, and light westerly and northerly winds on coast; Port Darwin, fine, with light S.E. wind; Streaky Bay, fine, N.N.E., 18, rain 0·04; Daly Waters, fine, S.E., 23; Powell's Creek and Tennon's Creek, fine, light S.E. winds. Rain: Adelaide, 0·150; Borda, 0·330; and Robe, 0·270. Victoria: Weather cloudy, moderate sea, fresh N.W. winds, and rising barometers on coast, sea rough at Wilson's Promontory, weather last evening very squally. Rain: Cape Otway, 0·050; Portland, 0·110; Wilson's Promontory, 0·760. New South Wales: Weather very unsettled, cloudy patches here and there all over colony; clear, however, inland to W. at Bourke and Wilcannia, and S.W. at Wentworth and Euston; smooth sea, rising barometers, and fresh N.W. wind on coast; light rain recorded at Wagga, Albury, and Eden. Queensland: Weather fine and clear, sea moderate, barometers rising. Rain: Cooktown, 0·050. 3 p.m. Observations.—Victoria, barometers steady; Melbourne, N.N.W., 13, cloudy, fine; temperature 61·; Portland, W., 23, cloudy, smooth sea, temperature 58·; Cape Otway, W., 18, hazy, moderate sea, temperature 57·; Wilson's Promontory, W.N.W., 34, squally, rough sea, temperature 54·. New South Wales: Wentworth, N.W., fine, temperature 57·; Deniliquin, calm, fine, temperature 61·5; Albury, calm, dull, temperature 58·; Goulburn, W., fine, temperature 59·; Forbes, calm, fine, temperature 49·; Eden, N.E., 14, fine, light, temperature 59·; Moruya, N.E., 28, fine, smooth sea, temperature 63·3; Cape George, S.S.E., 14, fine, smooth sea, temperature 60·; Sydney, W., 14, fine, smooth sea, temperature 60·7; Newcastle, N.W., fine, smooth sea; Port Macquarie, S., 14, fine, smooth sea, temperature 58·1; Clarence River, W., fine, smooth sea, temperature 65·. State of Rivers.—Murrumbidgee: At Hay, 5 feet above summer level; at Balranald, 9 feet above summer level. Murray: At Euston, 10 feet 1 inch above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 4 1880, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·8*s* *E*

Average Annual Rainfall for 22 years ..... 51·463
Average for 23 years from Jan. 1st to June 30 ... 31·097
Total Rainfall from Jan. 1st to July 4 ... 22·412.

Barometers corrected to 32° Fah ; Mean Sea Level

Stations.	W'r	W'r	Ma	R'in
Casino..	b	74	36	0
Tenterfild	n	58	91	0
Moree....	b	71	38	0
Grafton..	b	69	40	0
Gl'n Inn's	n	67	20	0
Inverell..	b	60	23	0
Bourke ..	b	62	38	0
Narrabri	b	62	30	0
Armidale	n	51	70	0
Bendem'r	..	..	..	.
Gunned'h	.	.	.	.
Coonam'le	b	64	30	0
Tamworth	b	62	24	0
Coonab'rn	n	62	21	0
P.Macqrie	b	62	40	0
Wilcannia	b	9	68	0
Murr'undi	c	56	33	0
Cassilis..	n	58	25	0
Mus'br'ok	g	60	27	0
Dubbo...	n	59	33	0
Menindie	b	62	57	0
Mudgee.	b	67	33	0
Maitland.	g	56	34	0
Hill End.	b	53	26	0
Newcastle	b	60	42	0
Orange.	n	50	30	0
Bathurst	fn	59	26	0
18 56		Ea		
Forbes	n	54	32	0
Mt Vict'ria	g	45	36	0
Condob'lin	b	46	36	0
Picton..	g	59	27	0
Carcoar..	n	47	32	0
Wentw'th	b	63	39	0
Young...	n	57	38	0
Wodgo'ng	c	69	42	0
Hay....	b	65	25	0
Moss Vale	g	51	31	0
Euston...	b	62	36	0
Goulburn	b	57	32	0
Wagga...	b	55	9	0 01
Cape Geo.	c	59	42	0
Queanb'n	g	53	31	0
Deniliq'in	c	60	40	0
Moruya..	g	66	45	0
Kiandra..	c	47	18	0
Alb'ry	c	58	38	0 05
B'd'lla	g	69	35	0
Cooma	g	59	35	0
Eden	g	51	44	0 01
Gabo	.	.	..	..

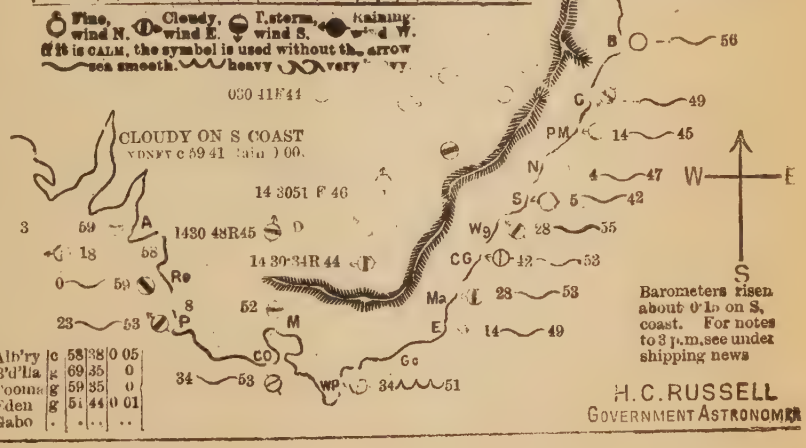
WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Ro, Robe
CE, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E



Barometers risen about 0·1s on S. coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 5.

Western Australia: Weather cloudy and gloomy, showery at Perth; rain, 1·420; light N.W. wind at Albany. South Australia reports weather fine and clear, barometers high, but falling; light north-westerly winds, rough sea on coast; Port Darwin, fine, light S.E. wind; Port Augusta, fine and calm; Powell's Creek and Tennon's Creek, fine, light S.E. wind; rain, Robe, 0·010. Victoria: Weather cloudy and squally, with rough sea at coast stations, barometers high and steady, sea moderate at Wilson's Promontory, rough at Cape Otway; no rain. New South Wales: Fine, clear, and frosty, smooth sea, rising barometers, and light westerly winds on coast; rain at Albury, 0·010. Queensland: Fine clear weather, light S.E. and S.W. winds, moderate sea and rising barometers. 3 p.m. Observations.—Victoria. barometers steady; Melbourne, N., 13, fine, temperature 61°; Cape Otway, N., 18, very fine, rough sea, temperature 61°; Portland, N.N.W., 28°, fine, smooth sea, temperature 61°; Wilson's Promontory, W.N.W., 3, squally, smooth sea. New South Wales: Wentworth, N., fine, temperature 58°; Albury, calm, fine, temperature 60°; Forbes, calm, fine, temperature 50°; Moruya, N.E., 20, fine, sea smooth, temperature 60°; Sydney, E., fine, clear, sea smooth, temperature 60°; Port Macquarie, S., 20, fine, temperature 59°; Menindie, calm, fine, temperature 58°; Deniliquin, calm, fine, temperature 62°; Eden, N.E., 14, fine, sea smooth, temperature 60°; Cape George, calm, fine, sea smooth, temperature 62°; Clarence River, S., cloudy, sea smooth, temperature 63°. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 3 inches above summer level. Murray—At Albury, 5 feet 3 inches above summer level. Darling—At Wentworth, 8 feet 5 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 5 1886, with NOTES to 3 P.M

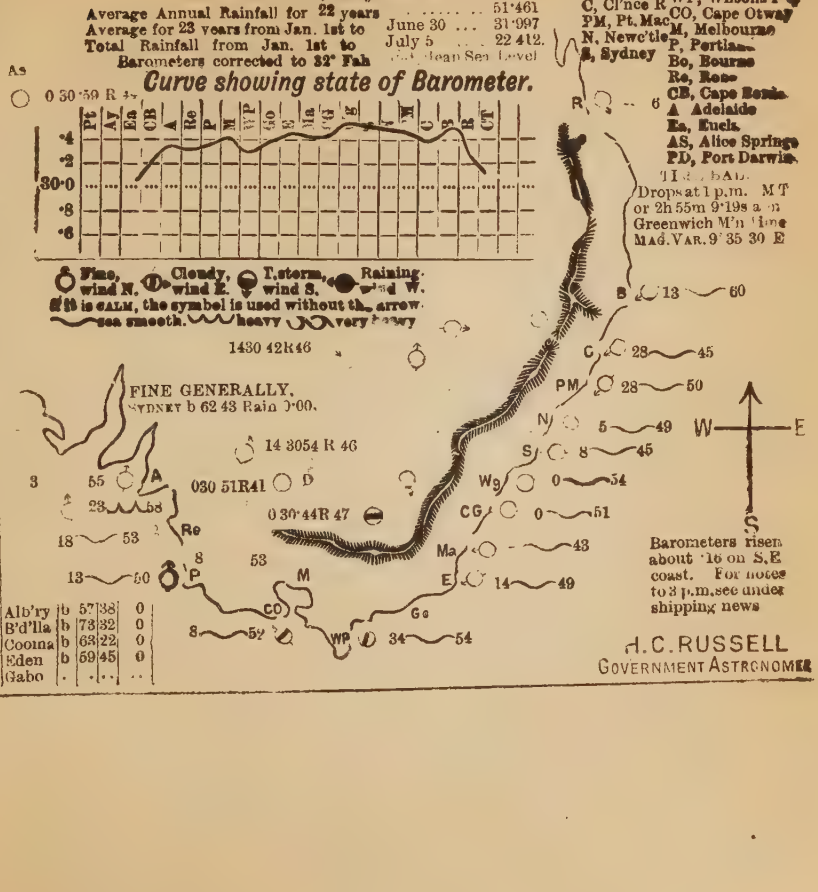
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to June 30 . . . 31·997
Total Rainfall from Jan. 1st to July 5 . . . 22·412.
Barometers corrected to 32° Fah . . . Mean Sea Level

Stations.	W't	M'x	M'n	R'in
Casino..	b	71	31	0
Tenterfield	n	58	23	0
Moree....	b	74	38	0
Grafton..	b	68	41	0
Gl'n Inn's	n	57	24	0
Inverell..	b	50	26	0
Bourke ..	b	64	39	0
Narrabri	b	65	35	0
Armidale	n	50	19	0
Bendem'r	..	..	..	.
Gunned'h	.	..	..	.
Coonam'le	..	..	..	.
Tamworth	b	63	25	0
Goonab'rn	n	63	23	0
P.Macqrie	b	66	41	0
Wilcannia	b	59	39	0
Murr'undi	b	56	33	0
Cessnlis..	n	57	26	0
Mus'br'ok	b	62	28	0
Dubbo...	b	59	53	0
Menindie	b	61	35	0
Mudgee ..	b	63	28	0
Maitland.	b	53	34	0
Hill End.	b	52	27	0
Newcastle	b	67	41	0
Orange..	n	49	32	0
Bathurst	n	55	24	0
34 65		Ea.		
Forb's	n	49	30	0
Mt Vict'ria	b	49	36	0
Condob'ln	b	46	38	0
Picton..	n	60	28	0
Carcoar..	n	47	32	0
Wentw'th	b	71	37	0
Young...	n	53	35	0
Wollgo'ng	b	72	39	0
Hay....	b	68	40	0
Moss Vale	n	53	30	0
Euston...	n	76	38	0
Goulburn	n	57	26	0
Wagga...	b	58	36	0
Cape Geo.	n	65	43	0
Queanb'n	n	57	30	0
Deniliq'in	n	63	37	0
Moruya..	b	67	41	0
Kiandra..	b	64	5	0
Alb'ry	b	57	38	0
B'd'lla	b	73	32	0
Cooma	b	63	22	0
Eden	b	59	45	0
Gabo	.	..	..	..

Curve showing state of Barometer.



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 6.

Western Australia: Fine and clear, light N.E. and N.W. winds, sea smooth. Rain, Perth, 0·070; Albany, 0·360. South Australia reports dull threatening weather; barometers rising in W. and falling in E. of colony; smooth sea with light N. winds on coast, fine N. of Port Augusta; Port Darwin, fine, S.E., 8; Daly Waters, ditto; Streaky Bay, fine, S.W., 13; Powell's and Tenon's Creeks, fine, light S.E. winds. Victoria: Cloudy strong northerly winds, smooth sea, and falling barometers; showery at Portland, very squally round coast; rain Portland, 0·070. New South Wales: Fine, clear, frosty weather prevails all over the colony; on the coast the winds are light and very variable, the sea smooth, and the barometers falling; no rain. Queensland: Weather cloudy, strong S.W. and S.E. winds, sea moderate; showery at Cooktown, rain 0·390. 3 p.m. Observations.—Victoria: Melbourne, N.W., 23, cloudy, temperature 56°; Portland, W., 48, showery, smooth sea, temperature 55°; Cape Otway, N.W., 56, showery, squally, rather rough sea, temperature 70°; Wilson's Promontory, W., 34, raining, moderate sea, temperature 50°. New South Wales: Deniliquin, N.W., 14, fine, temperature 62°; Albury, calm, fine, temperature 59°; Goulburn, W., strong, fine, temperature 61°; Forbes, calm, fine, temperature 54°; Moruya, N.W., 20, fine, smooth sea, temperature 66°; Cape George, N., 42, fine, smooth sea, temperature 62°; Sydney, N.N.W., 14, fine, smooth sea, temperature 61°; Newcastle, N.W., fine, smooth sea; Port Macquarie, N.W., 14, fine, smooth sea, temperature 65°; Clarence River, S.E., 14, fine, smooth sea, temperature 66°. State of Rivers:—Murrumbidgee: At Wagga, 4 feet 3 inches above summer level; at Hay, 4 feet above summer level; at Balranald, 6 feet 8 inches above summer level. Murray: At Albury, 3 feet 3 inches above summer level; at Euston, 10 feet 5 inches above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 6 1886, with Notes to 3 P.M.

Sydney Observatory.

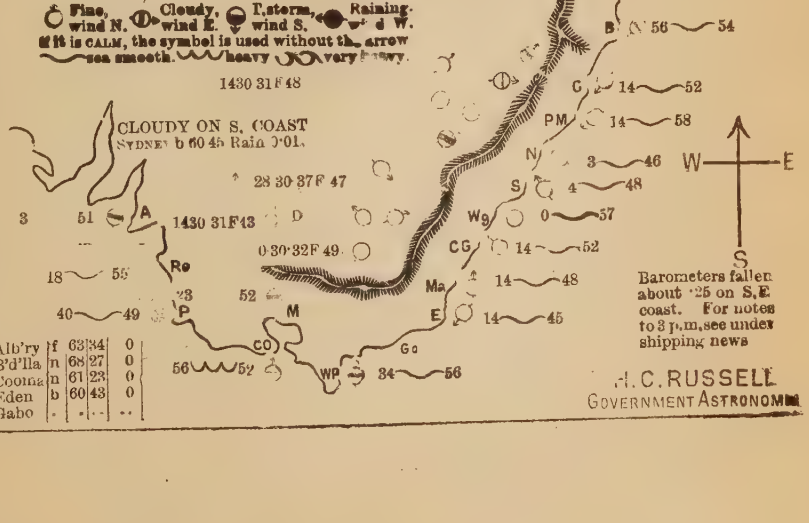
Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ... ... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to July 6 ... 22·420.
Barometers corrected to 32° Fah ... at Mean Sea Level

Stations.	W'th	M'x	M.S	R'in
Casino..	b	63 40		0
Tenterfild	g	52 33		0
Moree....	b	77 46		0
Grafton..	b	70 40		0
Gl'n Inn's	g	60 33		0
Inverell..	b	60 26		0
Tourke ..	b	65 40		0
Narrabri	b	64 37		0
Armidale	g	52 24		0
Bendem'r	.	.	.	.
Grafton'd'h	.	.	.	.
Coonam'le	..	..		.
Ashmworth	..	.	.	..
Coonab'rn	n	64 24		0
P.Macqrie	b	64 52		0
Wilcannia	b	61 39		0
Murr'undi	b	57 26		0
Cassilis..	b	60 28		0
Mus'br'ok	b	63 32		0
Dubbo...	b	60 33		0
Menindie	b	60 38		0
Mudgee	f	73 30		0
Maitland.	f	58 38		0
Hill End.	b	52 33		0
Newcastle	f	67 44		0
Orange..	n	51 32		0
Bathurst	n	61 25		0
13 55		Ea		
Forbes	n	54 32		0
MtVict'ria	b	50 38		0
Condob'lin	b	47 37		0
Picton..	b	59 32		0
Carcoar.	b	53 34		0
Wentw'th	b	69 40		0
Young...	n	58 36		0
Wollgo'ng	b	69 49		0
Hay...	b	67 26		0
Moss Vale	b	53 34		0
Euston...	b	64 35		0
Goulburn	b	63 26		0
Wagga...	b	57 33		0
Cape Geo.	b	64 49		0
Queanb'n	n	55 28		0
Deniliq'in	n	61 38		0
Moruya..	b	55 42		0
Kiandra..	b	46 12		0
Alb'ry	f	63 34		0
B'd'lla	n	68 27		0
Cooma	n	61 23		0
Eden	b	60 43		0
Gabo	.	.	..	..

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 7.

Western Australia: Perth fine, with light S.E. wind, smooth; Albany, fine and clear, light N.W. wind, smooth sea. South stralia reports very fine weather, barometers high and rising, it variable winds on coast; Robe, 0·020; Streaky Bay, calm ndy; Daly Waters, calm and cloudy; Port Darwin, fine, with it S.E., 8; Port Augusta, fine, light S. wind; Powell's Creek, , S.E., 8; Tennon's Creek, fine, S.E., 18. Victoria: Cloudy. ning at Portland; rough sea, fresh northerly squalls and rising ometers round coast; rain, Wilson's Promontory, 0·450; Cape way, 0·230; Portland, 0·120. New South Wales: Fine clear ather prevails, smooth sea, light westerly winds, and falling ometers down coast, cold in morning and frosty inland. eensland: Fine, with light S.E. and S.W. winds, sea moderate. .m. Observations.—Victoria: Melbourne, W., 13, cloudy, temature 55·; Portland, W.S.W., 28, raining, slight sea, tempera-e 54·; Cape Otway, W.S.W., 28, showery, rough sea, temature 52·; Wilson's Promontory, W., 34, squally, rough sea, perature 51·. New South Wales: Deniliquin, calm, fine, temature 59·2; Albury, calm, fine, temperature 58·; Goulburn, n, fine, temperature 63·; Forbes, calm, fine, temperature 50·; n, S.W., 14, fine, smooth sea, temperature 51·; Cape George, ., 14, dull, smooth sea, temperature 62·; Sydney, S., 48, fine, oth sea, temperature 58·4·: Newcastle, N.W., fine, smooth ; Port Macquarie, S., 48, fine, smooth sea, temperature 62·6·; y Zealand: High barometers and fine weather. State or ers: Murrumbidgee: At Wagga, 4 feet 3 inches above summer l; at Hay, 4 feet above summer level; at Balranald, 8 feet ches above summer level. Murray: At Albury, 3 feet above mer level; at Euston, 10 feet 6 inch above summer level. Dar-: At Wentworth, 8 feet 5 inches above summer level; at ncarie, summer level; at Menindie, summer level; at Wil-ia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 7, 1880, with Notes to 3 P.M.

Sydney Observatory

Lat. 33° 51′ 41″ S., *Long.* 10*h.* 4*m.* 50·81*s.* E.

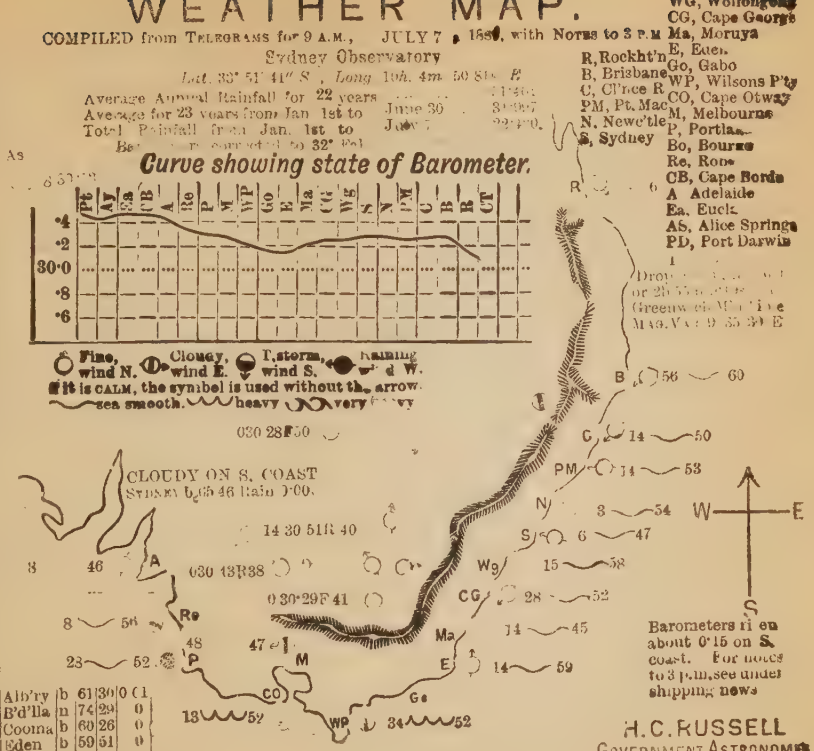
Average Annual Rainfall for 22 years [illegible]

Average for 23 years from Jan. 1st to June 30 [illegible]

Total Rainfall from Jan. 1st to July 7 [illegible]

Barometer corrected to 32° Fahr.

Stations.	Wt	B's	Ma	R'fall
Casino..	b	71	37	0
Tenterfild	g	53	21	0
Moree....	b	70	45	0
Grafton..	b	69	40	0
Gl'n Inn's	b	63	25	0
Inverell..	b	60	26	0
Bourke ..	b	71	43	0
Narrabri	b	67	40	0
Armidale	b	55	28	0
Bendem'r	..	..		.
Ganned'h	.	.		.
Coonam'le	b	68	34	0
Tamworth	n	68	31	0
Coonab'rn	n	64	26	0
P.Macqrie	b	66	48	0
Wilcannia	b	62	39	0
Murr'undi	b	58	36	0
Cassilis..	n	61	31	0
Mus'br'ok	n	63	34	0
Dubbo...	n	60	37	0
Menindie	b	67	42	0
Mudgee..	n	63	30	0
Maitland.	n	60	39	0
Hill End.	b	53	32	0
Newcastle	b	71	45	0
Orange..	n	54	31	0
Bathurst	n	59	25	0
0 54		Ea		
Forbes	n	52	32	0
Mt Vict'ria	n	51	39	0
Condob'ln	b	48	36	0
Picton..	b	60	21	0
Carcoar..	b	52	32	0
Wentw'th	b	69	34	0
Young...	n	58	36	0
Wollgo'ng	b	72	42	0
Hay....	b	64	35	0
Moss Vale	b	55	38	0
Euston...	b	62	29	0
Goulburn	b	57	31	0
Wagga...	b	58	24	0
Cape Geo.	b	66	49	0
Queanb'n	n	56	32	0
Deniliq'in	n	62	34	0
Moruya..	b	67	44	0
Kiandra..	b	68	50	0
Alb'ry	b	61	30	0·01
B'd'lla	n	74	29	0
Cooma	b	60	26	0
Eden	b	59	51	0
Gabo	.	.	..	..



METEOROLOGICAL REPORTS.—JULY 8.

Western Australia: Fine and clear, light variable winds, sea smooth at Perth; very smooth at Albany. South Australia: Weather gloomy and threatening, barometers high and steady, light misty rain falling at Adelaide; smooth sea at Borda; Port Macdonnell, cloudy, fresh, W.S.W. wind, rain 0·020; Streaky Bay, cloudy, N.N.W., 8; Port Augusta, calm, cloudy; Daly Waters, S., 3, cloudy; Port Darwin, S.E., fine, 8; Powell and Tennon's Creek, S.E., 8, fine. Rain: Adelaide, 0·030; Borda, 0·040; Robe, 0·010. Victoria: Cloudy and raining round coast, sea rough, wind fresh from N.W., barometers fallen slightly. Rain: Portland, 0·090; Otway, 0·280; Wilson's Promontory, 0·120. New South Wales: Fine clear weather prevails; some stations, chiefly S.W. and Riverina, report cloudy weather, but on the coast all is clear, and inland generally; smooth sea, light west winds, and rising barometers are reports on coast. Queensland: Cloudy, N., at Rockhampton and Cooktown, with moderate S.E. wind; fine at Brisbane, light S.W. wind, moderate sea. 3 p.m. Observations.—Victoria: Melbourne, W., 8, raining, temperature 54.; Portland, W., 34, dull, rather rough sea, temperature 54°; Cape Otway, W.N.W., 28, showery, high sea, temperature 51°; Wilson's Promontory, W., 23, raining, moderate sea, temperature 51° New South Wales: Wentworth, W., cloudy, temperature 56°; Deniliquin, S.W., 14, dull, temperature 58°; Albury, S.W., cloudy, temperature 54°; Goulburn, W., fine, temperature 58°; Forbes, calm, fine, temperature 48°; Eden, N.E., 14, fine, sea smooth, temperature 57°; Moruya, S.E., 14, fine, sea smooth, temperature 57°; Cape George, S.E., 14, fine, sea smooth, temperature 57°; Sydney, N.N.E., 14, fine, sea smooth, temperature 56°; Newcastle, calm, fine, sea smooth; Port Macquarie, S., 14, fine, sea smooth, temperature 62°; Clarence River, S., dull, sea smooth, temperature 65°; Menindie, calm, overcast, temperature 54°. New Zealand: Strong wind and easterly sea over South Island, raining in the north. State of Rivers: Murrumbidgee: At Wagga, 4 feet 3 inches above summer level; at Hay, 3 feet 6 inches above summer level; at Balranald, 7 feet 9 inches above summer level. Murray: At Albury, 2 feet 9 inches above summer level; at Euston, 10 feet 8 inches above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 8 1884, with Norm to 3 P.M.

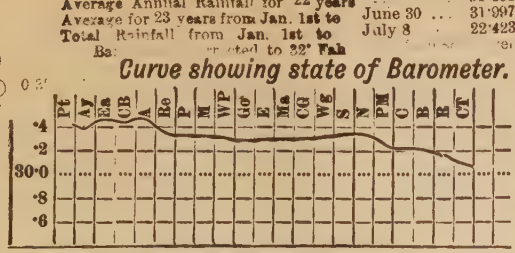
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Leng.* 10*h.* 4*m.* 50·81*s.* *E.*

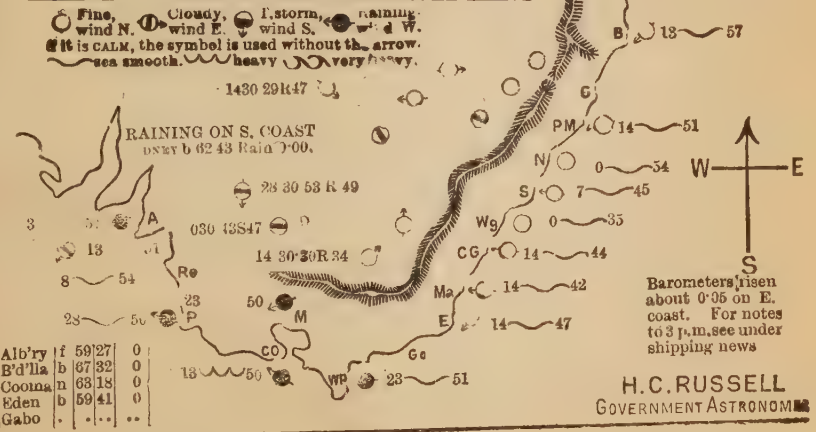
Average Annual Rainfall for 22 years ... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to July 8 ... 22·423.
Ba[illegible] to 22° Fah

Stations.	W'th	W'x	Ma	Rain
Casino..	b	73	35	0
Tenterfild	n	60	27	0
Moree....	b	77	45	0
Grafton..	b	75	45	0
Gl'n Ina's	b	64	22	0
Inverell..	b	57	31	0
Bourke ..	b	68	42	0
Narrabri	b	61	39	[illegible]
Armidale	n	53	25	0
Bendem'r	.	.	.	.
Gunned'h	b	75	31	[illegible]
Coonam'le	b	67	35	0
Tamworth	n	68	31	0
Coonab'rn	n	66	24	
P.Macqrie	b	67	47	0
Wilcannia	b	62	38	0
Murr'undi	b	59	23	[illegible]
Cassilis	b	61	[illegible]	[illegible]
Singb'r'ok	g	[illegible]	35	0
Dubbo...	b	59	37	0
Menindie	g	54	45	0
Mudgee..	g	69	34	0
Maitland.	o	60	42	0
Hill End.	b	52	33	0
Newcastle	b	70	52	0
Orange..	b	50	29	0
Bathurst	g	59	26	0
0 54	Ea			
Forb's	n	57	34	0
McVict'ria	g	51	33	0
Condob'lin	b	46	39	
Picton..	b	62	32	.
Carcoar..	n	49	29	0
Wentw'th	g	61	38	0
Young...	b	54	32	0
Wollgo'ng	b	67	42	0
Hay.....	g	61	26	0
Moss Vale	b	55	33	0
Euston...	c	64	30	0
Goulburn	b	60	22	0
Wagga...	n	59	29	0
Cape Geo.	b	62	39	0
Queanb'n	n	62	29	0
Deniliq'in	g	57	35	0
Moruya..	b	65	40	0
Xiandra..	n	48	10	0
Alb'ry	f	59	27	0
B'd'lla	b	67	32	0
Cooma	n	63	18	0
Eden	b	59	41	0
Gabo	.	.	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 9.

Western Australia: Barometers, 30·30, weather fine. South Australia: Barometers, 30·40, and rising; weather cloudy. Victoria reports cloudy weather all round coast, with moderately rough sea, fresh W. and S. winds, rising barometers, and light rain at places. Rain measurement: Melbourne, 0·070; Otway, 0·560; Wilson's Promontory, 0·630; Portland, 0·310. New South Wales: Fine clear frosty weather reported from inland stations; cloudy inland in S. Western districts and on coast S. of Twofold Bay; sea smooth, wind fresh from west and south-west; barometers falling; cold clear weather on the mountains; cloudy weather, for the most part confined to Victorian border. Queensland: Rockhampton, fine, wind S.W.; Brisbane, sultry and overcast; strong S.S.E. wind at Cape Moreton; Cooktown, fine weather, no rain, fresh S.E. wind. New South Wales: Wentworth, S.W., cloudy, temperature 55°; Deniliquin, S.S.W., 14, cloudy, temperature 58°; Albury, S.W., 20, cloudy, temperature 58.; Goulburn, calm, cloudy, temperature 57°; Forbes, calm, cloudy, temperature 51°; Eden, calm, fine, temperature 57°; Moruya, S.E., 20, cloudy, sea moderate, temperature, 57°; Sydney, calm, fine, temperature 57°; Newcastle, barometer 30.066; Port Macquarie, N.E., 14, fine, temperature, 61°; Clarence River, S., 14 fine, temperature 67°; Menindie, S.W., cloudy, temperature 55°. New Zealand: Generally fine, barometers 29·80. State of Rivers: Murrumbidgee: At Wagga, 4 feet 3 above summer level; at Hay, 3 feet 6 inches above summer level; at Balranald, 7 feet 3 inches above summer level. Murray: At Albury, 2 feet 10 inches above summer level; at Euston, 10 feet 9 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 9 1886, with Notes to 3 P.M.

Sydney Observatory.

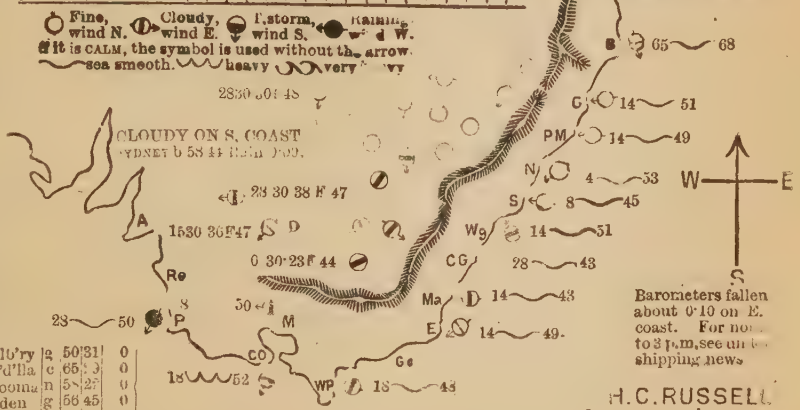
Lat: 33° 51′ 41″ *S.*; *Long.* 10h. 4m. 50·81s. *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to July 9 22 424.
Barometers corrected to 32° Fah

Stations.	W't	M'x	M.n	R'in
Casino..	b	73	38	0
Tenterfield	b	61	29	0
Moree....	b	76	36	0
Grafton..	b	71	49	0
Gl'n Inn's	b	62	34	0
Inverell..	b	60	29	0
Bourke ..	b	63	41	0
Narrabri	b	66	33	0
Armidale	b	51	26	0
Bendem'r	.	.		
Gunned'h	b	75	2[illegible]	[illegible]
Co'nam'r	b	64	[illegible]	0
Tamworth	n	68	[illegible]	0·35
Coonab'rn	n	65	93	0
P.Macqrie	b	64	45	0
Wilcannia	b	64	45	0
Murr'undi	b	56	34	0
Cassilis..	n	58	28	0
Mus'br'ok	n	63	29	0
Dubbo...	b	60	35	0
Menindie	b	62	38	0
Hadgee ..	n	73	28	0
Maitland.	b	62	35	0
Hill End.	n	52	[illegible]	0
Newcastle	b	70	41	0
Orange..	b	48	32	0
Bathurst	g	50	24	0
	Ma			
Forbes	n	59	41	0
Mt Vict'ria	g	42	32	0
Condob'lin	b	50	39	0
Picton..	n	56	32	0
Carcoar..	g	47	32	0
Wentw'th	g	58	40	0·05
Young...	g	53	33	0
Wollgo'ng	c	64	42	0
Hay....	g	55	30	0·03
Moss Vale	n	52	32	0
Euston...	g	62	38	0
Goulburn	b	48	27	0
Wagga...	g	51	33	6
Cape Geo.	b	58	38	0
Queanb'n	n	65	30	0
Deniliq'n	g	56	30	0·06
Moruya..	g	63	38	6
Kiandra..	b	35	7	0
Alb'ry	g	50	31	0
B'd'lla	c	65	[illegible]	0
Cooma	n	58	27	0
Eden	g	56	45	0
Gabo	.	.	.	..

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Rain, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy



WG, Wellington
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockh't'n
B, Brisbane
C, Cl'nce R.
PM, Pt. Mac
N. Newc'tle
S, Sydney

Drops at 1 p.m. M'T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·10 on E. coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 11.

Western Australia: Cloudy, with light E. and N.E. winds; sea smooth, no rain. South Australia: Cloudy weather; raining at Robe, 0·220; rough sea at Cape Borda, barometers falling, wind fresh from S.; rain Cape Borda 0·220. In Victoria the weather is cloudy, but no rain is falling; fine and clear with hoar frost at Melbourne; on the coast the barometers show a slight fall on the previous evening's reading; the winds are light from the N. and N.W., and the sea smooth; rain at Melbourne 0·010, and Wilson's 0·020. New South Wales: Cloudy, rainy weather is reported from the majority of stations, especially in the centre of colony and on the coast line; fine near Queensland and Victorian borders; light S.S.W. winds, falling barometers, and smooth sea on coast. (For rain, &c., see weather map.) Queensland: Fine and clear, light variable winds, rising barometers, moderate sea. 3 p.m. Observations.—Victoria: Melbourne, W., 8, cloudy, temperature 53°; Portland, S., 28, showery, smooth sea, temperature 52°; Cape Otway, N.W., 13, cloudy, moderate sea, temperature 51°; Wilson's Promontory, W., 23, gloomy, slight sea, temperature 49°. New South Wales: Deniliquin, S.S.W., cloudy, temperature 59°; Albury, calm, fine, temperature 54°; Goulburn, calm, raining, temperature 58°; Forbes, calm, fine, temperature 51°; Eden, N.E., 14, fine, light sea, temperature 55.; Moruya, S.S.E., 20, cloudy, sea moderate, temperature 60°; Cape George, S.S.W., 42, raining, smooth sea, temperature 56°; Sydney, S.S.W., 28, raining, smooth sea, temperature 54°; Newcastle, S.S.E., raining, moderate sea; Port Macquarie, S.W., 28, raining, moderate sea, temperature 59°. State of Rivers: Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 3 feet 6 inches above summer level; Murray: At Albury, 2 feet 9 inches above summer level. Darling: At Wentworth, 9 feet 1 inch above summer level; at Pooncarie, summer level; at Menindie, summer level; Wilcannia, summer level.

WEATHER MAP.

COMPILED from Telegrams for 9 A.M., July 11 1886, with Notes to 3 P.M.

[illegible] Observatory.

[illegible] *Long.* 10*h.* 4*m* 50·81*s* **E**

Average [illegible] Rainfall for 22 years . . . . . 51·461
Average for 23 years from [illegible] 1st to June 30 . . . 31·997
Total Rainfall from Jan. 1st to July 11 . . 23·446
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W'th	M'x	M.S	R'in
Casino..	b	61	48	0 30
Tenterfield	b	60	25	0 12
Moree....		..	.	..
Grafton..	g	60	52	0
Gl'n Inn's	b	58	23	0 28
Inverell..	b	58	25	0
Bourke ..	b	63	40	0
Narrabri		..	.	..
Armidale	g	54	25	0 12
Bendem'r	..	.	.	..
Ganned'h	–	..	.	.
Coonam'le	b	62	33	0
Tamworth	–	..	.	..
Coonab'rn	b	79	95	0
P.Macqrie	–	..	..	..
Wilcannia	b	6[illegible]	35	0
Murr'undi	r	55	38	0
Cassilis.	g	54	35	0
Mus'br'ok	r	60	43	0
Dubbo...	b	6[illegible]	37	0 05
Menindie	g	42	35	0
Mudgee..	g	74	35	0 06
Maitland.	r	59	39	0 50
Hill End.	c	52	35	0 05
Newcastle	r	62	51	1 60
Orange..	g	49	35	0 04
Bathurst	g	53	26	0 09
18 57	Ea			
Forb's	n	54	33	0
MtVict'ria	r	43	39	0 53
Condob'in	b	51	37	0
Picton..	d	55	48	0 84
Carcoar.	b	45	32	0
Wentw'th	g	60	33	0
Young...	b	56	37	0
Wollgo'ng	r	58	50	0 94
Hay....	n	60	20	0
Moss Vale	r	46	40	1 17
Euston...	g	61	30	0
Goulburn	r	59	40	0 07
Wagga...	n	54	30	0
Cape Geo.	r	56	45	0
Queanb'n	n	60	29	0
Deniliq'in	g	61	31	0
Moruya..	g	60	46	0
Kiandra..	b	36	7	0

Alb'ry	f	57	30	0 03
B'd'lla	g	66	35	0
Cooma	n	52	27	0
Eden	b	58	42	0
Gabo	.	.	..	..

Curve showing state of Barometer.

Barometers fallen about ·10 on S W coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 12.

Western Australia: Perth, fine, light N.E. wind, smooth sea; Albany, gloomy weather, light W. wind, smooth sea. South Australia reports barometers still high and rising, weather cloudy, wind light from S.S.E., moderate rain at all stations S. of Port Augusta. Victoria: Cloudy, but no rain falling, rough sea, strong S.E. winds and rising barometers on coast; rain—Melbourne, 0·050; Portland, 0·040; Otway, 0·080; Wilson's Promontory, 0·160. New South Wales: Weather much the same as yesterday, fine up near Queensland and down near Victorian border, raining all in centre of colony and on coast line, sea heavy, wind strong from S.S.W.; [illegible] at Grafton, &c., see Weather Map. Queensland: Rockhampton, cloudy, wind S.E.; Brisbane, fine, light W. wind. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S.S.E., 13, fine, temperature 50°; Portland, S.E., 13, cloudy, smooth sea, temperature 52°; Cape Otway, S.E., 8, cloudy, rough sea, temperature 52°; Wilson's Promontory, E., 13, misty, smooth sea, temperature 51°. New South Wales: Wentworth, S., fine, temperature 51°; Deniliquin, S., 14, fine, temperature 59°; Albury, calm, fine, temperature 56°; Goulburn, S., dull, temperature 59°; Forbes, calm, cloudy, temperature 48°; Eden, S.W., 28, dull, light sea, temperature 55°; Moruya, S.S.E., 42, showery, rough sea, temperature 56°; Cape George, S.S.E., 70, showery, heavy sea, temperature 54°; Sydney, S., 42, raining, heavy sea, temperature 53°; Newcastle, S., stormy, heavy sea; Port Macquarie, S.W., 42, cloudy, unsettled, temperature 62°; Meniindie, S.W., fine, temperature 54°. New Zealand: Moderate north-westerly winds; barometer 30·40 in North Island, 30·40 in South Island. State of Rivers: Murrumbidgee: At Wagga, 3 feet [illegible] above summer level; at Hay, 3 feet 6 inches above [illegible] Darling, [illegible] above summer level. Murray: [illegible] summer level; at Echuca, 14 [illegible] summer level; at Wentworth, [illegible] summer level; at Pooncarie, summer level; at Menindie, summer level; Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 12 1881, with Norms to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

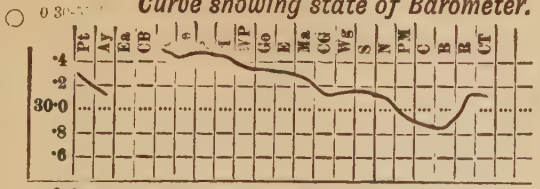
Average Annual Rainfall for 22 years ... 51·03
Average for 23 years from Jan. 1st to June 30 ... 31·87
Total Rainfall from Jan. 1st to July 12 ... 24·154
Bar[illegible] corrected to 32° Fah

Stations.	W't	M'x	M.	R'in
Casino...	b	71	41	0
Tenterfild	b	59	36	0
Moree....	b	69	45	0
Grafton...	b	70	7	0
G'n Inn's	g	59	41	0
Inverell...	g	59	26	0
Bourke ..	g	67	4	0
Narrabri	b	64	39	0
Armidale	g	59	26	0·07
Bendem'r	..	..	..	..
Gunned'h	g	71	35	0
Coonam'le	–	..	..	..
Tamworth	c	62	39	0
Cootab'rn	c	57	35	0
P.Macqrie	b	66	50	0·39
Wilcannia	g	55	46	0
Murr'undi	r	52	46	0·05
Cessilis..	g	55	35	0
Mus'br'ok	r	59	48	0·31
Dubbo...	g	56	35	0·06
Menindie	g	60	40	0·60
Mudgee	g	75	34	0
Maitland.	r	56	39	0·73
Hill End.	c	59	28	2·20
Newcastle	q	58	49	0
Orange..	g	48	39	0
Bathurst	g	51	41	0·04
		Ea		
Forb's	c	58	36	0
Mt Vict'ria	r	45	30	0·30
Condob'lin	g	45	37	0
Picton..	g	57	48	0·10
Carcoar..	g	48	40	0
Wentw'th	c	58	39	0
Young...	n	58	38	0
Wollgo'ng	r	59	49	0·60
Hay....	b	62	23	0
Moss Vale	r	48	40	0·41
Euston...	g	63	37	0
Goulburn	g	52	38	0·04
Wagga...	b	54	29	0
Cape Geo.	r	56	49	0·19
Queanb'n	b	70	34	0
Deniliq'n	b	58	35	0
Moruya..	g	60	48	0·20
Kiandra..	c	35	8	0
Alb'ry	b	56	27	0
B'd'lla	–	..	..	..
Cooma	c	66	30	0
Eden	g	55	45	0
Gabo	..	..	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Ge, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Ro, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

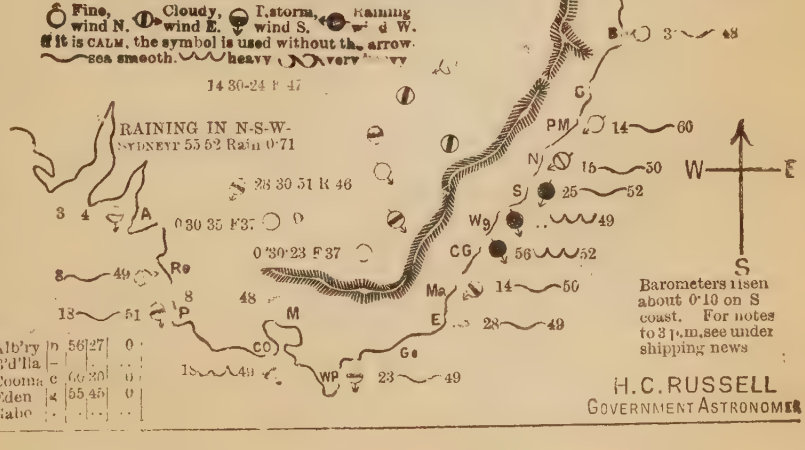
R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

Curve showing state of Barometer.



Drops at 1 p.m. MT or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining and W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy



Barometers risen about 0·10 on S coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 13.

Western Australia: Perth, dull, gloomy weather, S., 18, smooth sea; Albany, fine and clear, N.W., 3, smooth sea. Rain, 0·030. South Australia: Barometers high but falling slightly, weather cloudy on coast but fine inland, smooth sea, winds light and very variable, no rain; Streaky Bay, N., 23, cloudy; Port Augusta, calm, fine; Daly Waters, fine, S.E., 23; Port Darwin, S.E., 23, fine; Powell's and Tennon's Creeks, fine and clear with fresh S.E. winds. Victoria: Cloudy but without rain, smooth sea, slowly falling barometers, and light variable winds around coast; dense fog at Melbourne. New South Wales: Weather somewhat finer than yesterday, stil raining at the majority of coast stations with strong southerly winds, rising barometers, and heavy sea; raining still on the mountains but fine and clear, with light S.W. winds and calms inland, to N.W. and S.W. in the Riverina districts. For rain, &c., see weather map. Queensland: Fine and clear, light S.W. and W. winds, rising barometers and moderate sea. 3 p.m. Observations.—New South Wales: Wentworth, S., fine, temperature 54°; Deniliquin, calm, fine, temperature 56°; Albury, calm, fine, temperature 56°; Goulburn, S.S.E., dull, temperature 58°; Forbes, calm, fine, temperature 51°; Eden, S.W., 14, showery, heavy sea, temperature 53°; Moruya, S.E., 42, dull, heavy sea, temperature 53°; Cape George, S., 56, showery, heavy sea, temperature 54°; Sydney, S.S.W., 56, cloudy, heavy sea, temperature 53°; Newcastle, S., cloudy, heavy sea; Port Macquarie, S., 56, unsettled weather, moderate sea, temperature 60°; Menindie, S.W., light, fine, temperature 52°. New Zealand: Generally fine, barometers 30·40 in North Island, 30·10 in South Island. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 3 feet 6 inches above summer level; at Balranald, 6 feet above summer level. Murray: At Albury, 2 feet 7 inches above summer level; at Euston, 11 feet 3 inches above summer level. Darling: At Wentworth, 9 feet 3 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY [illegible] Sun. [illegible] Noon to 9 A.M.

Sydney Observatory

Lat. 33° 51′ 41″ *S.* ; *Long.* 10h 4m 50·81s *E.*

Average Annual Rainfall for 22 years ..... 51·461

Average for 23 years from Jan 1st to June 30 .. 31·997

Total Rainfall from Jan. 1st to July 13 ..... 24·541

R[illegible] [illegible] to 9th Feb

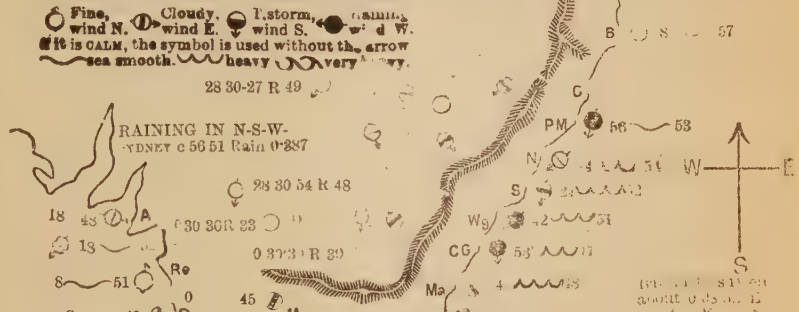
Stations	W'l	W'x	M.	R'in
Casino..	b	75	44	0
Tenterfild	b	57	36	0
Moree....	b	69	46	0
Grafton..	b	76	54	0 24
Gl'n Ina's	g	52	38	0 37
Inverell..	g	59	25	0 33
Bourke ..	b	66	2	0 06
Narrabri	b	62	45	0 21
Armidale	b	50	37	0 90
Bendem'r	..	.	.	.
Gunned'h	b	63	42	0 61
Coonam'le	–	..	.	..
Tamworth	c	58	46	0
Coonab'rn	b	56	40	0 33
P.Macqrie	r	64	45	2 40
Wilcannia	b	55	39	0
Murr'undi	g	52	46	0 35
Cassilis.	b	51	45	0 56
Mus'br'ok	b	57	46	0 43
Dubbo...	b	56	37	0 47
Menindie	b	52	37	0
Mudgee..	b	73	21	0 10
Maitland.	g	55	59	0 70
Hill End.	b	50	30	0
Newcastle	g	62	52	1 26
Orange..	g	45	37	0 18
Bathurst	g	47	38	0 13
18 55		Ea		
Forb's	b	56	34	0
MtVict'ria	p	40	36	0 49
Condob'lin	b	48	37	0
Picton..	b	52	47	0 02
Carcoar..	g	45	4[illegible]	0 17
Wentw'th	b	59	53	0
Young...	b	55	36	0
Wollgo'ng	p	63	49	0 24
Hay....	b	60	32	0
Moss Vale	r	44	38	0 56
Euston...	b	63	28	0
Goulburn	g	48	37	0 03
Wagga...	b	54	29	0
Cape Geo.	p	66	46	0 21
Queamb'n	b	58	33	0
Deniliq'in	b	52	28	0
Moruya..	g	59	44	0 26
Kiandra..	c	39	7[illegible]	0
Alb'ry	b	6[illegible]	28	0
B'd'lla	b	62	43	0 05
Cooma	b	48	34	0 02
Eden	p	57	46	0 14
Gabo	.	..	..	..

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Calm, wind W.

If it is CALM, the symbol is used without the arrow

sea smooth. heavy very heavy.



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 14.

Western Australia: Perth, dull and threatening, W., 23 smooth sea; Albany, showery, wind N.N.W., 13, rain 0·020, slight sea. South Australia: Weather still cloudy but apparently clearing, smooth sea, light northerly winds, and high but falling barometers on coast; Port Darwin, S.E., 8, fine; Streaky Bay, N., 23, fine; Tenon's and Powell's Creeks, fine, S.E., 23; Port Augusta, calm and fine; Daly Waters, S.E., 18, cloudy. Victoria: Cloudy, with fresh northerly winds, falling barometers, and smooth sea, no rain. New South Wales: Gale on coast moderated, sea going down, barometers high and still rising, wind moderate from S.W., fine and frosty inland, still gloomy and threatening on the coast and mountains; for rainfall, &c., see weather map. Queensland: Fine clear weather, light N.E. and S.W. winds, sea moderate, barometers rising, no rain. 3 p.m. Observations.—Victoria: Barometers falling slowly; Melbourne, N., 13, fine, temperature 55·; Cape Otway, N., 13, cloudy, rough sea, temperature 52·; Portland, N.N.W., 34, cloudy, smooth sea, temperature 55·; Wilson's Promontory, N.N.E., 13, cloudy, smoth sea, temperature 53·. New South Wales: Albury, calm, fine, temperature 57·; Forbes calm, fine, temperature 56·; Moruya, S.E., 20, fine, temperature 54·; Sydney, S.S.W., 28, cloudy, moderate sea, temperature 55·; Port Macquarie, S.S.W., 56, cloudy, smooth sea, temperature 51·; Deniliquin, calm, fine, temperature 57·; Goulburn, calm, dull, temperature 57·; Eden, S., 14, fine, light sea, temperature 54·; Cape George, S.S.W., 42, fine, moderate sea, temperature 54·; Newcastle, S.W., dull, moderate sea. New Zealand: Light easterly winds and fine weather. State of Rivers: Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 3 feet 6 inches above summer level; at Balranald, 6 feet above summer level. Murray: At Albury, 2 feet 9 inches above summer level; at Euston, 11 feet 2 inches above summer level. Darling: At Wentworth, summer level; at Pooncarie, summer level; at Menindie, summer level; Wilcannia, summer level,

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., JULY 14 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10h. 4m. 50·81s *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to July 14 ... 24·564
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.

	Pt	Ay	Ea	CB	A	Re	P	M	WP	Go	E	Ma	CG	Wg	S	N	PM	C	B	R	CT
·4																					
·2																					
30·0																					
·8																					
·6																					

Fine, wind N. **Cloudy**, wind E. **T.storm**, wind S. **Raining**, wind W.
If it is **CALM**, the symbol is used without the arrow
sea smooth. **heavy** **very heavy**.

Stations.	W't	W'x	M.	R'in
Casino.	b	73	35	0
Tenterfield	b	59	97	0
Moree....	b	69	39	0
Grafton...	b	69	50	0
Gl'n Inn's	n	55	30	0
Inverell...	b	56	35	0
Bourke ..	b	66	38	0
Narrabri	b	61	38	0
Armidale	g	56	31	0
Bendem'r	–	.	.	.
Gunned'h	b	66	31	0
Coonam'le	b	58	42	0
Tamworth	b	58	32	0
Coonab'rn	n	56	25	0
P.Macqrie	g	58	51	0 14
Wilcannia	b	55	33	0
Murr'undi	g	50	42	0
Cassilis.	n	55	30	0
Mus'br'ok	g	53	45	0
Dubbo...	n	57	34	0
Menindie	b	58	32	0
Mudgee..	n	70	28	0
Maitland.	g	52	50	0
Hill End.	b	48	27	0
Newcastle	g	61	50	0 10
Orange..	n	45	31	0
Bathurst	n	51	26	0
18 56		Ea		
Forb's	b	59	27	0
Mt Vict'ria	g	41	33	0 07
Condob'lin	b	45	35	0
Picton..	g	54	40	0 02
Carcoar..	n	48	29	0
Wentw'th	b	55	28	0
Young...	b	55	34	0
Wollgo'ng	c	61	47	0
Hay...	b	60	29	0
Moss Vale	r	44	40	0 06
Euston...	b	80	26	0
Goulburn	g	48	32	0
Wagga...	b	58	28	0
Cape Geo.	c	64	47	0
Queanb'n	n	65	28	0
Deniliq'n	b	52	33	0
Moruya..	g	50	38	0
Kiandra..	b	30	5	0
Alb'ry	b	60	27	0
B'd'lla	b	60	32	0
Coona	n	45	28	0
Eden	g	57	45	0 01
Jabo	.		..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Ge, Gabo
WP, Wilsons Pt.
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Cl'nce R.
PM, Pt. Mac.
N, Newc'tle
S, Sydney

TIDE DATA.
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

CLOUDYE
SYDNEY c 55 48 Rain 0·001

14 30-28 R 44
14 30 45 F 37
14 30-26 F 36
0 30-48 F 55
0 30 37 R 51

Barometers fallen about 0·10 on S coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 15.

Western Australia: Light rains have fallen; now fine; weather barometers 30·20 to 30·30; winds southerly. South Australia: Barometers 30·00; rain generally south of Port Augusta, heavy about Mount Lofty Ranges, fine clear inland at Alice Springs and thence northward. Victoria: Cloudy and raining round coast; barometers falling; wind fresh from N., sea rough; strong gusty wind at Melbourne. Rain, Cape Otway, 0·050, Portland 0·150. New South Wales: Fine and frosty at generality of inland stations; cloudy on coast S. of Cape George with heavy sea; barometers falling; wind light from S.W. on coast and calm inland; light rain measured at Mount Victoria and Moss Vale. See Map. Queensland: Fine clear weather with light N.W and S.W. winds; sea moderate; barometers rising; no rain. 3 p.m. Observations.—Victoria, Barometers steady; Melbourne, N.W., 23, fine, temperature 52°; Portland, W., 48, squally with hail, sea smooth, temperature 51°; Cape Otway, N.W., 34, squally with rain, sea rough, temperature 48°; Wilson's Promontory, W., 34, squally, sea rough, temperature 46°. New South Wales.—Deniliquin, N.W., fine, temperature 57°; Albury, N.W., cloudy, like rain, temperature 54°; Goulburn, N.W., fine, temperature 57°; Eden, E.N.E., 14, fine, heavy sea, temperature 53°; Moruya, S.W., 30, gloomy, heavy sea, temperature 60°; Cape George, N.W., 42, fine, sea moderate, temperature 57.; Sydney, N.N.W., 14, fine, sea smooth, temperature 62°; Newcastle, W., fine, sea smooth; Port Macquarie, E., 14, fine, sea moderate, temperature 62°; New Zealand: Heavy S.E. gale southern parts of New Zealand, other parts cloudy and calm. State of Rivers: Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 6 feet above summer level. Murray: At Albury, 3 feet above summer level; at Euston, 11 feet 4 inches above summer level.

WEATHER MAP.

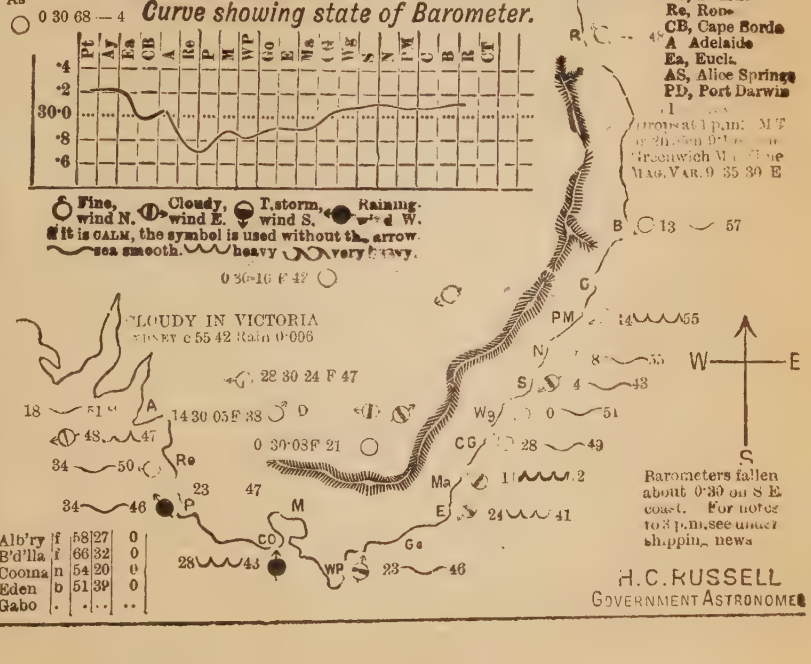
COMPILED from TELEGRAMS for 9 A.M., JLUY 15 1881, with Norm to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to July 15 ... 24 570
Barometers corrected to 32° Fah

Stations	W't	M'x	M.i	R'in
Casino..	b	76	42	0
Tenterfild	n	62	29	0
Moree....	b	70	40	0
Grafton..	g	76	54	0
Gl'n Inn's	n	62	30	0
Inverell..	b	59	33	0
Bourke ..	n	61	34	0
Narrabri	b	61	42	0
Armidale	b	53	35	0
Bendem'r	–	.	.	–
Gunned'h	–	..	..	..
Cooram'le	b	59	32	0
Tamworth	b	65	35	0
Coonab'rn	g	60	25	0
P.Macqrie	b	62	48	0
Wilcannia	b	55	32	0
Murr'undi	f	52	13	0
Cassilis..	f	53	33	0
Mus'br'ok	g	59	46	0
Dubbo...	n	57	34	0
Menindie	n	57	31	0
Mudgee..	g	63	35	0
Maitland.	b	58	48	0
Hill End.	o	47	29	0
Newcastle	b	62	49	0
Orange..	f	47	29	0
Bathurst	f	57	30	0
13 52		Ea		
Forb's	n	58	27	0
MtVict'ria	n	43	36	0 03
Condob'ln	–	..	..	—
Picton..	b	53	32	0
Carcoar..	n	48	32	0
Wentw'th	c	59	35	0
Young...	n	55	31	0
Wollgo'ng	b	63	49	0
Hay...	b	39	34	0
Moss Vale	n	47	35	0 01
Euston...	b	62	29	0
Goulburn	n	49	25	0
Wagga...	n	50	28	0
Cape Geo.	b	55	41	0
Queanb'n	f	55	27	0
Deniliq'in	n	55	31	0
Moruya..	f	58	38	0
Kiandra..	g	30	0	0
Alb'ry	f	58	27	0
B'd'lla	f	66	32	0
Cooma	n	54	20	0
Eden	b	51	39	0
Gabo	.	..	..	..



Barometers fallen about 0·30 on S E coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—July 16.

Western Australia: Barometers 30·10 to 30·28, light southerly winds, fine: South Australia: Light rains on Friday, 0·08, light southerly winds, fine, weather barometers on south coast 30·00 inches, inland 30·33; at Alice Springs, fine, clear. Victoria: Melbourne, fine; showery at Wilson's Promontory and Portland; wind generally between N. and W., blowing fresh at Wilson's Promontory and Portland; ·06 of rain fell at Melbourne, 0·40 at Cape Otway, 1·67 at Wilson's Promontory, and 0·46 at Portland; the barometer has fallen about ·05 at Portland, while the other stations show a slight rise; high sea at Cape Otway. New South Wales: Fine generally throughout, the cloudy stations being nearly all to the westward, extending back to the river Darling; misty at Tenterfield, Coonabarabran, Cassilis, Young, Wagga, Bodalla, Cooma, Moruya, Glen Innes, and Walcha; at Kiandra the minimum temperature was down to zero, wind between S.W. and N., and light; the barometer has fallen about ·03 on east coast; heavy swell at Moruya Heads. Queensland: Fine and clear at Brisbane and Cape Moreton, with very light breeze from S.W.; fresh S.E. breeze at Cooktown, also fine; sea moderate at Cape Moreton. 3 p.m. Observations:—Victoria: Barometers falling; Cape Otway, N.W., 18, cloudy, rough sea, temperature 52°; Portland, N.N.W., 34, cloudy, threatening, moderate sea, temperature 52°; Wilson's Promontory, W., 23, cloudy, squally, moderate sea, temperature 55°. New South Wales: Eden, N.W., 14, fine, temperature 56°. New Zealand: Heavy S.E. gale in North Island, veering to N.E. gale in South Island. State of Rivers: Murrumbidgee: At Hay, 3 feet 6 inches above summer level; at Balranald, 5 feet 9 inches above summer level. Murray: At Euston, 11 feet above summer level.

WEATHER MAP.

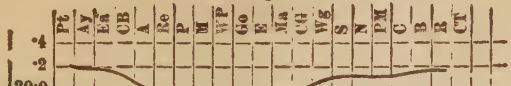
COMPILED from TELEGRAMS for 9 A.M., JULY 16 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S. Long 10h. 4m. 50·81s E

Average Annual Rainfall for 22 years 51·482
Average for 23 years from Jan. 1st to June 30 .. 3·997
Total Rainfall from Jan. 1st to July 16 .. 4·570

Curve showing state of Barometer.

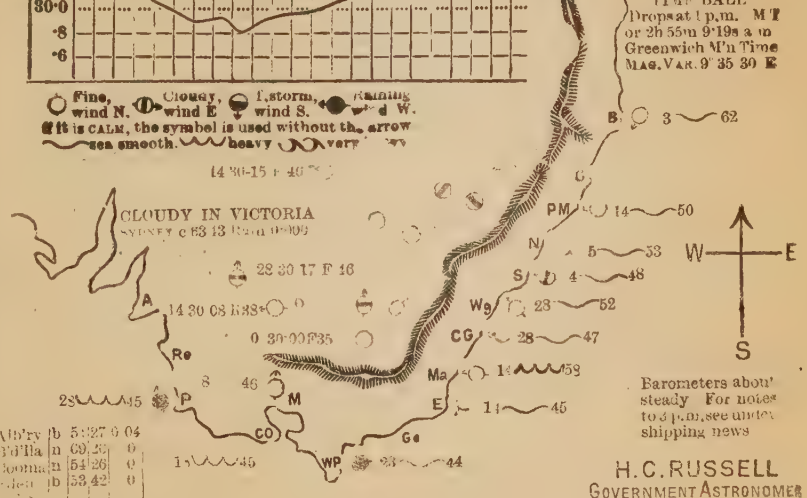


Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very

Station				
Casino	b	72	32	0
Tenterfield	n	61	24	0
Moree...	b	70	28	0
Grafton ..	b	75	46	0
Gl'fl'm's	n	62	26	0
Inverell .	b	60	28	0
Bourke ..	b	63	38	0
Narrabri	b	63	34	0
Armidale	b	51	34	0
Bendem's	–	..	..	..
Gunned'h	–	..	..	..
Cootamdle	–	..	..	..
Tamworth	–	..	..	..
Coonab'rn	n	61	23	0
P.Macqrie	b	64	16	0
Wilcannia	g	59	40	0
Murr'undi	b	57	38	0
Cassilis.	n	58	30	0
Mus'br'ok	b	60	36	0
Dubbo...	c	56	35	0
Menindie	g	61	39	0
Mudgee	u	64	33	0
Maitland.	b	61	41	0
Hill End.	o	40	31	0
Newcastle	b	66	44	0
Orange..	b	46	28	0
Bathurst	b	54	42	0
		Ea		
Forb'ds	b	57	36	0
Mt Vict'rial	c	47	35	0
Condob'lin	g	55	48	0
Picton..	–	..	..	..
Carcoar..	c	46	35	0
Wentw'th	c	61	38	0
Young...	n	50	33	0
Wollgo'ng	b	67	43	0
Hay...	u	58	32	0
Moss Vale	b	40	35	0
Euston...	g	62	34	0
Goulburn	b	54	33	0
Wagga...	n	52	29	0
Cape Geo.	b	63	59	0
Queanb'n	b	65	36	0
Deniliq'in	b	57	41	0
Nerrigu...	b	61	36	0
Balranald	c	35	0	0

Alb'ry	b	53	27	0·04
B'd'lla	n	69	35	0
Booma	n	54	26	0
Sydney	b	53	42	0
[illegible]	–	..	..	..

As



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh'n
B, Brisbane
C, Clance R
PM, Pt. Mac
Newc'tle
Sydney

TIME BALL
Drops at 1 p.m. M.T or 2h 55m 9·19s a.m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers about steady For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 18.

Western Australia : Fine and clear, light N.E. and N.W. winds, sea smooth ; no rain. South Australia : Heavy rains after Saturday midday ; barometers high in E., but falling in W. of colony ; weather this morning on S. coast cloudy; no rain falling ; Streaky Bay, gloomy, E.N.E., 13 ; Port Darwin, fine, S.E., 8. Rain : Adelaide, 0·490 ; Robe, 0·360 ; Borda, 0·170. Victoria : Cloudy, light rain falling at Portland ; wind fresh from N.W. ; sea moderate ; barometers rising. Rain : Melbourne, 0·100 ; Otway, 0·060 ; and Portland, 0·100. New South Wales : Fine, clear and frosty inland ; fine weather on coast with moderate cool westerly breezes; smooth sea and rapidly rising barometers. For rainfall see weather map. Queensland : Fine clear weather, light S.E. and S.W. wind ; sea smooth, barometers rising ; no rain. 3 p.m. Observations.—Victoria : Barometers steady ; Melbourne, W.S.W., 3, cloudy, temperature 55° ; Portland, W.S.W., 18, passing showers, sea smooth, temperature 55° ; Cape Otway, W.N.W., 18, cloudy, moderate sea, temperature 56° ; Wilson's Promontory, W., 13, cloudy, smooth sea, temperature 53°. New South Wales : Wentworth, N.W., dull, like rain, temperature 53° ; Deniliquin, S.W., 14, fine, temperature 58° ; Albury, calm, fine, temperature 56° ; Goulburn, calm, fine, temperature 59° ; Forbes, calm, fine, temperature 58° ; Eden, S.W., 28, fine, light sea, temperature 56° ; Moruya, S.E., 28, fine, smooth sea, temperature 57° ; Cape George, S., 52, fine, smooth sea, temperature 56° ; Sydney, S., 28, fine, smooth sea, temperature 56° ; Newcastle, S., fine, smooth sea ; Port Macquarie, S.S.W., 52, fine, smooth sea, temperature 59° ; Menindie, calm, fine, temperature 55° New Zealand : Moderate easterly winds, weather changing in N.W., great flood at Thames, rain from S.E. State of Rivers.—Murrumbidgee : At Wagga, 3 feet 4 inches above summer level ; at Hay, 5 feet above summer level ; at Balranald, 5 feet 6 inches above summer level. Murray : At Albury, 2 feet 6 inches above summer level ; at Euston, 11 feet above summer level. Darling : At Wentworth, 9 feet 5 inches above summer level ; at Pooncarie, summer level ; at Menindie, summer level ; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 18 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S. Long. 10h. 4m 50·81s E

Average [illegible] rainfall for 22 years . . . . . 51·461

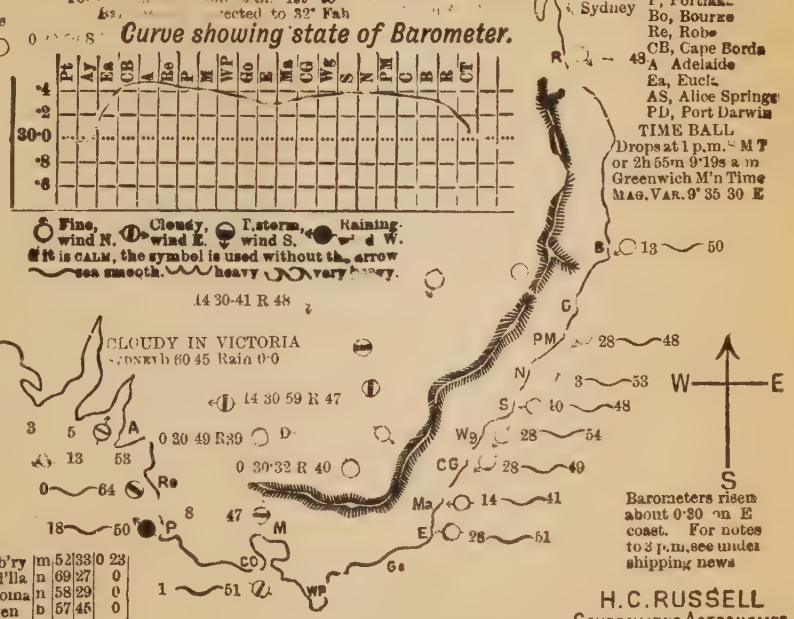
Average [illegible] 23 years from Jan. 1st to June 30 . . . 31·997

Total rainfall from Jan. 1st to July 18 . . . 24·570

Barometer corrected to 32° Fah

Stations	w't	M'x	Ma	R'in
Casino...	b	74	26	0
Tenterfild	n	57	22	0
Moree....	b	70	36	0
Grafton...	b	70	25	0
Gl'n Ins's	n	54	24	0
Inverell..	b	55	25	0
Bourke ..	b	64	40	0
Narrabri	b	64	34	0
Armidale	n	56	28	0
Bendem'r	–	.	.	.
Gunned'h	b	72	27	0
Coonam'le	b	60	32	0
Tamworth	b	64	97	0
Coonab'rn	n	58	29	0
P.Macqrie	b	69	43	0
Wilcannia	b	62	42	0
Murr'undi	b	55	36	0
Cassilis..	n	55	31	0
Mus'br'ok	b	65	38	0
Dubbo...	n	55	35	0
Menindie	b	62	40	0
Mudgee..	b	64	33	0
Maitland.	o	60	42	0
Hill End.	b	44	30	0
Newcastle	.	69	44	0
Orange..	g	44	34	0 14
Bathurst	b	48	33	0 07
18 52		Ea		
Forb's	b	59	36	0
MtVict'ria	n	4[illegible]	35	0
Condob'lin	b	53	39	0
Picton..	–	.	.	..
Carcoar..	g	47	37	0 28
Wentw'th	g	59	40	0
Young...	g	52	39	0 15
Wollgo'ng	b	69	49	0
Hay....	g	58	36	0
Moss Vale	b	46	37	0
Euston...	–	..	.	..
Goulburn	b	49	36	0
Wagga...	g	49	32	0 13
Cape Geo.	b	61	41	0
Queanb'n	n	58	29	0
Deniliq'in	f	57	36	0
Moruya..	b	67	37	0
Kiandra..	b	45	15	0

Alb'ry	m	52	33	0 23
B'd'lla	n	69	27	0
Cooma	n	58	29	0
Eden	b	57	45	0
Gabo	–	.	..	..



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 19.

Western Australia: Perth, 29·84, gloomy, fresh N.E wind, sea smooth, rain 0·110; Albany, 29·84, fine, light W. wind, sea smooth; rain, nil. South Australia: Weather fine and clear, barometers high, and still rising, sea smooth, light northerly winds all round coast, rain—Borda, 0·040, Robe, 0·020, Streaky Bay, cloudy, N., 23·; Daly Waters, calm, fine; Port Darwin, fine, S.E., 8, barometer rising; Powell's and Tennant's creeks, fine weather, wind S.E., 8 miles. Victoria: Cloudy all round coast, sea smooth and moderate, barometers high, and still rising, wind light from N., rain at Wilson's Promontory 0·130, and at Portland 0·020. New South Wales: Fine and clear inland and on coast south of Sydney, cloudy northwards; showery at Newcastle; barometers very high and still rising at 9 a.m., but apparently falling at 3 p.m., winds fresh from W. and S.W., sea smooth, frosty at most inland stations. Queensland: Fine, light S.E. and W. winds, barometer rising, sea moderate, no rain; strong S.E. wind in squalls at Cooktown. 3 p.m. Observations.—Victoria: Melbourne, N.E., 8, fine, temperature 55·; Cape Otway, N.W., 8, fine, sea rather rough, temperature 57·; Portland, N.N.W., 28, cloudy, smooth sea, temperature 56·; Wilson's Promontory, W., 13, cloudy, smooth sea, temperature 52·. New South Wales: Wentworth, N., fine, clear, temperature 55·; Albury, calm, fine, temperature 56·; Forbes, calm, fine, temperature 50·; Moruya, E.S.E., 20, fine, temperature 56·; Sydney, S.S.W., 14, fine, smooth sea, temperature 56·; Port Macquarie, S.W., 28, unsettled, smooth sea, temperature 63·; Menindie, calm, fine, temperature 55·; Deniliquin, calm, fine, temperature 58·; Goulburn, calm, fine, temperature 58·; Eden, N.N.E., 14, fine, smooth sea, temperature 56·; Cape George, S., 14, fine, smooth sea, temperature 57·; Newcastle, S.W., showery, smooth sea. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 4 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 6 feet 6 inches above summer level. Murray: At Albury, 2 feet 6 inches above summer level; at Euston, 11 feet above summer level. Darling: At Wentworth, 9 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

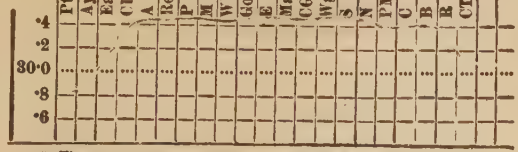
COMP[illegible] with Notes to 3 P.M.

Stations.				
Casino	b	71	31	0
Tenterfield	b	62	23	0
Moree	b	71	37	0
Gratton	c	67	25	0
Gin Gin's	b	57	26	0
Inverell	b	55	26	0
Bourke	b	63	40	0
Narrabri	b	60	27	0
Armidale	g	54	27	0
Bendem'r	–	.	.	.
Gunned'h	–	.	.	..
Coonamble	b	61	32	0
Tamworth	b	63	95	0
Coonab'rn	n	60	23	0
P.Macquarie	g	62	49	0
Wilcannia	b	61	40	0
Murr'undi	b	54	34	0
Cassilis	b	57	26	0
Mus'br'ok	b	65	33	0
Dubbo	b	57	37	0
Menindie	n	62	30	0
Mudgee	b	73	34	0
Maitland	r	58	44	0
Hill End	b	47	27	0
Newcastle	p	68	44	0 01
Orange	n	47	30	0
Bathurst	n	55	24	0
34 57		Ea		
Forb's	b	60	32	0
Mt Vict'ria	n	41	31	0 01
Condob'ln	b	48	37	0
Picton	o	53	3	0
Carcoar	n	43	32	0
Wentw'th	n	60	36	0
Young	b	56	36	0
Wollgo'ng	b	65	45	0
Hay	b	62	33	0
Moss Vale	b	48	33	0
Euston	n	62	23	0
Goulburn	b	57	29	0
Wagga	n	53	29	0
Cape Geo.	b	56	46	0
Queanb'n	n	65	29	0
Deniliq'in	n	58	29	0
Moruya	b	64	38	0
Kiandra	b	47	16	0

Alb'ry	n	59	31	0
B'd'lla	n	65	29	0
Cooma	n	54	18	0
Eden	b	56	42	0
Gabo	–	.	..	..

Average Annual Rainfall for 22 years [illegible] 51·462
Average for 22 years from Jan. 1st to June [illegible] 31·907
To [illegible] to Jan. [illegible] 570
[illegible] corrected to 32° Fah

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy

14 30-45 R 47

CLOUDY IN VICTORIA
SYDNEY b 58 43 Rain 0·0

28 30 63 R 43

0 30 59 R 33

0 30 48 R 46

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh'n
B, Brisbane
C, C'nce R
PM, Pt. Mac
N, New'cstle
Sydney

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0·24 on S E coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 20.

Western Australia: Perth reports heavy showers, strong W. nd; Albany, cloudy, with light N. wind. South Australia re- rts fine clear weather in the colony itself, but threatening off pe Leuwin; smooth sea, steady barometer, and light N.E. winds coast; Streaky Bay, N.E., 23, fine; St. Augusta, calm, fine; ly Waters, fine, S.E., 8; Port Darwin, calm, fine. Victoria: ne weather round coast, broken clouds at Wilson's Promontory d Cape Otway, sea smooth, wind fresh from N.E. and N., rometers steady; hoar frost at Melbourne. New South Wales: ne and frosty inland; cloudy and raining north of Newcastle; nooth sea with light S.W. and westerly winds and steady rometers all down coast; very heavy frost S.W. and W. of ydney, at Bathurst, Young, Wagga Wagga, &c. Queensland: risbane, cloudy, with strong S.W. wind, sea moderate; Cooktown, outherly, squally; Rockhampton, fine wind, S.E., no rain. 3 .m. Observations.—Victoria: Melbourne, N., 13, fine, tempera- ure 59°; Cape Otway, N., 28, cloudy, moderate sea, temperature 7°; Portland, N., 28, fine, smooth sea, temperature 57°; Wilson's romontory, W.S.W., 8, cloudy, smooth sea, temperature 52°. New South Wales: Wentworth, N., fine, temperature 58°; Deni- iquin, calm, fine, temperature 58°; Albury, calm, fine, tempera- ure 55°; Goulburn, calm, fine, temperature 58°; Forbes, calm, ine, temperature 56°; Eden, E.N.E., 14, fine, smooth sea, tem- perature 60°; Moruya, N.E., 14, fine, smooth sea, temperature 57°; Cape George, calm, fine, smooth sea, temperature 60°; Sydney, E.N.E., 14, fine, smooth sea, temperature 56°; Newcastle, N.W., fine, smooth sea; Port Macquarie, S., 42, fine, smooth sea, temperature 62°; Clarence River, S., 42, dull, smooth sea, tem- perature 67°; Menindie, S., fine, temperature 46. The barometer curve is remarkable to-day; there is an inch difference in the barometer between Albany and Melbourne. New Zealand: Heavy gale and rain from S.E. in Cook's Straits, 2·50 inch recorded. State of Rivers.—Murrumbidgee: At Wagga, 3 feet above summer level; at Hay, 3 feet 6 inches above summer level; at Balranald, 5 feet 9 inches above summer level. Murray: At Albury, 2 feet 3 inches above summer level; at Euston, 11 feet above summer level. Darling: At Wentworth, 9 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from **Telegrams** for 9 A.M., JULY 20 1881, with **Notes** to 3 P.M.

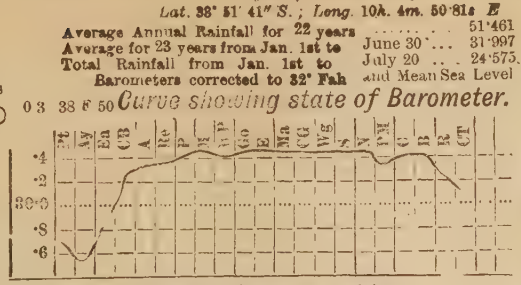
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

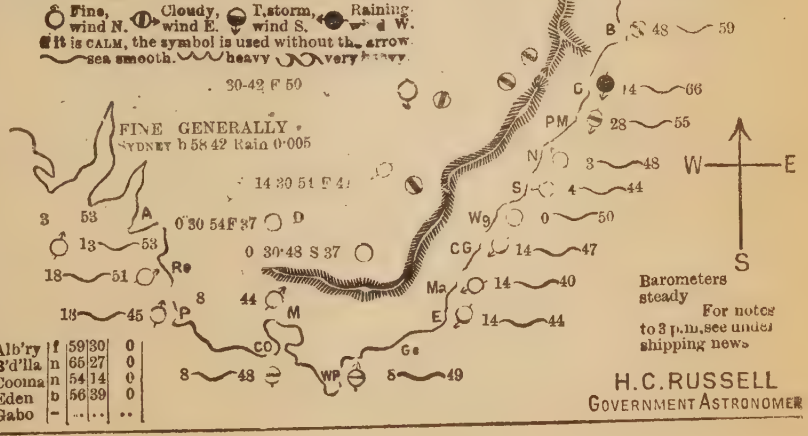
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to July 20 ... 24·575.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	M'n	M.t	R'in
Casino..	c	70 61		0
Tenterfield	g	57 31		0
Moree....	b	75 46		0
Grafton..	b	61 39		0
Gl'n Inn's	n	59 25		0
Inverell..	b	59 26		0
Bourke ..	b	67 3		0
Narrabri	b	68 40		0
Armidale	f	54 26		0
Bendem'r	–	..	..	..
Gunned'b	–	..	..	..
Coonamble	–	..	..	..
Tamworth	b	79 39		0
Coonab'rn	b	62 26		0
P.Macqrie	g	61 51		0
Wilcannia	b	59 40		0
Murr'undi	b	54 45		0
Cassilis..	f	56 29		0
Mus'br'ok	f	61 57		0
Dubbo...	b	57 37		0
Menindie	b	61 30		0
Mudgee..	n	74 40		0
Maitland.	f	61 41		0
Hill End.	b	49 27		0
Newcastle	b	66 42		0
Orange..	n	46 29		0
Bathurst	n	59 24		0
23 59		Ea		
Forb's	n	58 31		0
Mt Vict'ria	b	42 34		0
Condob'ln	b	50 38		0
Picton..	p	56 38		0
Carcoar..	n	50 33		0
Wentw'th	n	65 34		0
Young...	n	57 34		0
Wollgo'ng	b	62 45		0
Hay...	b	64 30		0
Moss Vale	f	50 29		0
Euston...	n	62 30		0
Goulburn	n	60 23		0
Wagga...	n	54 29		0
Cape Geo.	b	56 40		0
Queanb'n	n	65 28		0
Deniliq in	n	59 29		0
Moruya..	f	62 37		0
Kiandra..	n	50 15		0
Alb'ry	f	59 30		0
B'd'lla	n	65 27		0
Cooma	n	54 14		0
Eden	b	56 39		0
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

B, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. - M T or 2h 55m 9·19s a m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers steady

For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 21.

Victoria: Cloudy round coast but without rain, sea smooth, wind light from N. and N.N.E., barometers steady, no rain, low; Heads, dense fog, fresh S.E. wind, barometer 30·240. New South Wales: Fine and clear, frosty inland, smooth sea, light variable land breezes and calms on coast, barometers falling, no rain, cloudy at Wentworth and Menindie. Queensland: Fine with light S.E. and S.W. winds, no rain, sea moderate, barometer rising. 3 p.m. Observations.—Victoria: Melbourne, N., 13, dull, temperature 61°; Portland, N.N.E., 18, dull, smooth sea, temperature 56°; Cape Otway, N., 8, cloudy, slight sea, temperature 59°; Wilson's Promontory, N.E., 18, cloudy, smooth sea, temperature 53°. New South Wales: Wentworth, 61, fine, temperature 61°; Deniliquin, N.E., fine, temperature 60°; Albury, calm, fine, temperature 58°; Goulburn, calm, fine, temperature 58°; Forbes, calm, fine, temperature 60°; Eden, N.E., 14, fine, smooth sea, temperature 54°; Moruya, N.E., 20, fine, temperature 57°; Cape George, N.E., 14, fine, smooth sea, temperature 57°; Sydney, N.N.W., 14, fine, smooth sea, temperature 57°; Newcastle, S.E., fine, smooth sea; Port Macquarie, S., 28, fine, smooth sea, temperature 61°; Clarence River, S., 42, fine, moderate sea, temperature 64°; Menindie, N.E., 20, fine, temperature 58°. New Zealand, heavy S.W. gales in North Island. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 3 inches above summer level; Hay, 3 feet 6 inches above summer level; at Balranald, 5 feet above summer level. Murray: At Albury, 2 feet 1 inch above summer level; Euston, 11 feet above summer level. Darling: At Wentworth, 9 feet 6 inches above summer level; at Pooncarie, summer level; at Menindi, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED [illegible] for 9 A.M., JULY 21 1881, with Norms to 3 P.M.

Sydney Observatory

Long. 10h. 4m. 50·81s *E.*

Average A[illegible] for 22 years 51·461

A[illegible] for 23 [illegible] Jan. 1st to June 30 .. 31·997

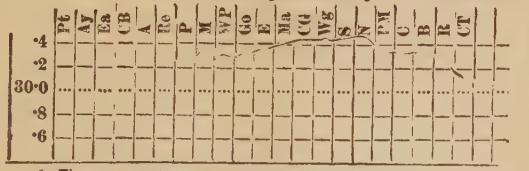
To[illegible] fall f[illegible] Jan. 1st to July 21 24·589

Ba[illegible]ers corrected to 32° Fah [illegible]

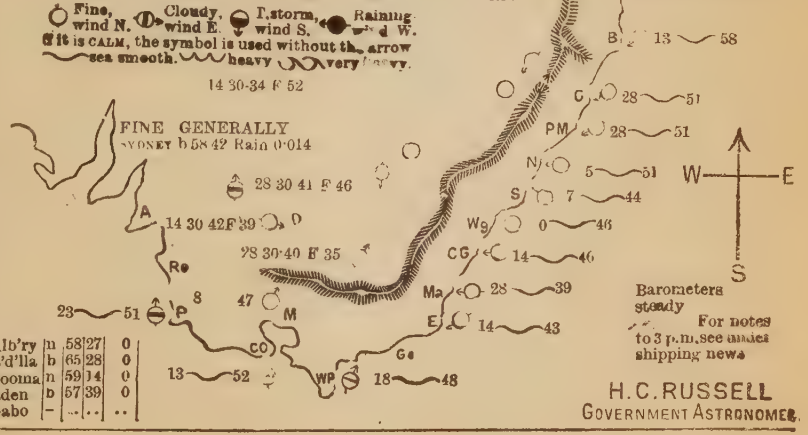
Stations.	W.	W.	M.	R.	in
Casino..	b	71	38		0
Tenterfild	n	60	27		0
Moree....	o	78	42		0
Grafton..	b	69	29		0
Gl'n Inn's	n	65	24		0
Inverell..	b	60	26		0
Bourke ..	b	6[illegible]	41		0
Narrabri	b	66	39		0
Armidale	f	53	25		0
Bendem'r	–	..	..		..
Gunned'h	–	..	..		..
Coonamble	c	67	35		0
Tamworth	b	67	98		0
Coonab'rn	b	66	25		0
P.Macqrie	b	65	14		0
Wilcannia	b	76	39		0
Murr'undi	b	56	38		0
Cassilis..	n	60	29		0
Mus'br'ok	b	60	51		0
Dubbo...	b	57	38		0
Menindie	g	65	36		0
Mudgee	b	73	29		0
Maitland.	f	56	39		0
Hill End.	b	49	28		0
Newcastle	b	65	43		0
Orange..	n	50	29		0
Bathurst	n	59	23		0
		Ea			
Forb's	b	57	30		0
MtVict'ria	b	58	35		0
Condob'lin	b	48	36		0
Picton..	–	..	..		..
Carcoar..	n	50	30		0
Wentw'th	g	68	38		0
Young...	n	54	32		0
Wollgo'ng	b	61	44		0
Hay....	b	67	37		0
Moss Vale	f	52	30		0
Euston...	b	72	31		0
Goulburn	b	60	21		0
Wagga...	n	54	23		0
Cape Geo.	b	60	29		0
Queanb'n	n	65	27		0
Deniliq'n	b	61	35		0
Moruya..	n	61	56		0
Kiandra..	b	56	15		0

Alb'ry	n	58	27	0
B'd'lla	b	65	28	0
Cooma	n	59	14	0
Eden	b	57	39	0
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockht'n
B, Brisbane
C, C.nce R
PM, Pt. Mac
N, Newc'tle
Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·198 a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers steady

For notes to 3 p.m. see index shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER.

METEOROLOGICAL REPORTS.—JULY 22.

Western Australia: Fine. with light N.E. and N.W. winds. Rain: Perth, 0·410; Albany, 0·160. South Australia: Fine inland, cloudy round S. coast, barometers still falling in E., but beginning to rise in W. of colony, wind strong from N.N.W. and N.W., weather squally; Streaky Bay, W.N.W., 34, showery; Port Augusta, N., fine, 13. Rain: Adelaide, 0·220; Eucla, 0·070; Streaky Bay, 0·210; Robe, 0·066; Borda, 0·170; Port Augusta, 0·120. Victoria: Cloudy round coast, with fresh N. winds, falling barometers, and moderate sea, squally on coast last night; rain at Portland, 0·030. New South Wales: Fine and clear at generality of stations, cloudy with rain on Darling, at Menindie, also at Wentworth clear weather with falling barometers, fresh S.W. and N·W. winds and smooth sea on coast, Queensland: Fine and clear, light S.E. and W.N.W. winds, sea smooth. 3 p.m. Observations.—Victoria: Barometers falling slowly; Melbourne, N., 13, gloomy, temperature 49·; Portland, N.N.W., 28, cloudy, smooth sea, temperature 58·; Cape Otway, N., 13, cloudy, temperature 54·; Wilson's Promontory, N.W., 23, squally with rain, moderate sea, temperature 51·. New South Wales: Deniliquin, N., raining. temperature 57·; Albury, calm, raining, temperature 56·; Goulburn, calm, dull, temperature 57·; Forbes, calm, dull, temperature 52·; Eden, N., 28, cloudy, smooth sea, temperature 56·; Moruya, N.E., 42, dull, moderate sea, temperature 57·; Cape George, N., 42, fine, little sea, temperature 58·; Sydney, N.N,E., 14, cloudy, smooth sea, temperature 59·; Newcastle, N.W., fine, smooth sea; Port Macquarie, E., 14, fine, smooth sea, temperature 61·; Clarence River, S.E., 14, fine, moderate sea, temperature 64·. New Zealand: Heavy gale from S.W. in North Island, weather stormy. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 4 feet 9 inches above summer level. Murray: At Albury, 2 feet above summer level; at Euston, 11 feet above summer level. Darling: At Wentworth, 9 feet 6 inches above summer level; at Pooncarie, summer level; at Menindi, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., JULY 22 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

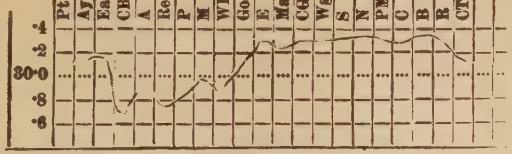
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to July 22 ... 24·596
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W'S	W'X	M.S	R'In
Casino..	b	74	35	0
Centerfield	n	61	26	0
Moree....	o	77	45	0
Grafton...	b	74	28	0
Gl'n Inn's	b	60	26	0
Inverell..	b	58	30	0
Bourke ..	b	70	43	0
Narrabri	b	66	38	0
Armidale	o	53	24	0
Bendem'r	–	.	.	
Ganned'h	b	74	34	0
Coonamble	c	68	38	0
Tamworth	o	69	28	0
Coonab'rn	g	66	26	0
P.Macqrie	g	64	45	0
Wilcannia	g	69	49	0
Murr'undi	b	56	36	0
Cassilis..	b	59	32	0
Mus'br'ok	g	61	33	0
Dubbo...	c	57	37	0
Menindie	p	69	46	0
Mudgee..	b	74	40	0
Maitland.	f	57	41	0
Hill End.	b	49	31	0
Newcastle	b	62	45	0
Orange..	c	45	30	0
Bathurst	t	61	27	0
28 55		Ea		
Forb's	c	61	35	0
Mt Vict'ria	g	50	35	0·02
Condob'lin	n	50	40	0
Picton..	n	59	40	0
Carcoar..	g	33	24	0
Wentw'th	r	70	45	0·28
Young...	g	60	39	0
Wollgo'ng	b	66	42	0
Hay....	g	68	40	0
Moss Vale	b	50	31	0
Euston...	r	71	33	0
Goulburn	b	65	27	0
Wagga...	g	56	33	0
Cape Geo.	b	60	47	0
Queanb'n	n	78	32	0
Deniliq'in	g	63	37	0
Moruya..	n	60	37	0
Kiandra..	g	40	0	0

Alb'ry	b	69	32	0
B'd'lla	b	69	32	0
Cooma	n	59	25	0
Eden	b	55	43	0
Gabo	–	.	..	..

8 30 34 R 60

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.

14 30-31 F 55

CLOUDY ON S COAST
SYDNEY b 58 44 Rain 0·008

28 30 15 F 55

0 30·17 F 40

14 30 09 F 53

WG, Wollongong
CO, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Roma
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·20 on S E coast For notes to 3 p.m. see unde shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 23.

estern Australia: Fine and clear, light N.W. winds, sea
th, no rain. South Australia: Cloudy weather round coast,
mooth, wind light from N.N.W., barometers rising rapidly.
—Adelaide, 0·250; Borda, 0·070; Robe, 0·050. Streaky Bay,
13, gloomy; Port Augusta, N., 8, cloudy; Daly Waters,
8, fine; Port Darwin, calm, fine: Tennant's and Powell's
, fine, with light S.E. winds. Victoria: Cloudy all round coast,
oderate and smooth at generality of stations, rather rough
lson's Promontory, wind fresh from W. and N.W., barometers
g. Rain—Wilson's, 0·250; Melbourne, 0·110; Otway, 0·10;
and, 0·120. New South Wales: Fine clear weather all down
, with light westerly winds, smooth sea, and falling baro-
rs down coast, cloudy weather inland to S.W. and W., fine
. and N., raining at Wagga Wagga; for amounts, &c., see
Queensland: Fine, with light S.W. winds, and moderate
Cooktown, light west wind; rain, 0·17. 3 p.m. Observa-
—Victoria: Barometers rising, 0·1 since 9 a.m.; Cape Otway,
3, misty, rough sea, temperature 53°; Portland, W.S.W.,
oudy, smooth sea, temperature 55°; Wilson's Promontory,
28, cloudy, rough sea, temperature 51° New South Wales:
tworth, S., 10, fine; Menindie, S., 15, fine, temperature 57°;
ry, N.W., fine, clear, temperature 58°; Forbes, calm, cloudy,
erature 55°; Moruya, N.E., 30, fine, temperature 59°; Sydney,
V., 14, fine, temperature 59°; Port Macquarie, S.W., 20, fine,
erature 62°; Deniliquin, S.W., 14, fine, temperature 60°;
burn, W., fine, temperature 59°; Eden, S.W., 30, fine, tem-
ure 55°; Newcastle, S.W., fine; Clarence River, W., 20, fine,
erature 66°. New Zealand: Heavy rain from S.W. over
r. State of Rivers.—Murrumbidgee: At Wagga, 3 feet above
er level; at Hay, 3 feet above summer level; at Balranald,
9 inches above summer level. Murray: At Albury, 2 feet
summer level; at Euston, 11 feet above summer level.
ig: At Wentworth, 9 feet 7 inches above summer level;
oncarie, summer level; at Menindie, summer level; at Wil-
, summer level.

WEATHER MAP.

COMPILED from Telegrams for 9 A.M., JULY 23 1881, with Notes to 3 P.M.

Sydney Observatory

Lat. 33° 52′ 1″ S ; Long. 10h. 4m 50·81s E

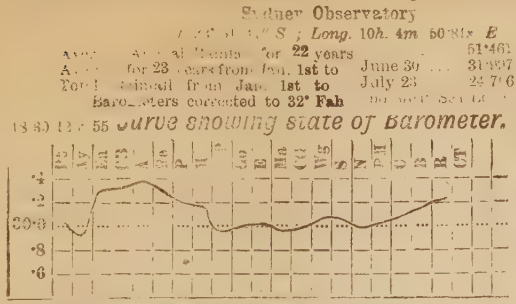
Average Annual Rainfall for 22 years		51·461
Average for 23 years from Jan. 1st to	June 30	31·997
Total Rainfall from Jan. 1st to	July 23	24·716

Barometers corrected to 32° Fah

Stations	W'thr	Bar.	Rain
Basino	b	75·34	[illegible]
Temterfild	b	62·[illegible]	0
Moree....	o	73·45	[illegible]
Grafton...	b	74·20	[illegible]
Gl'n Inn's	b	64·[illegible]	[illegible]
Inverell..	b	60·[illegible]	0
Bourke ..	b	76·[illegible]	[illegible]
Narrabri	b	68·43	0
Armidale	b	54·90	0
Bendem'r	–	.	
Gunned'h	b	76·33	0·02
Coonam'le	–	.	
Tamworth	b	69·36	0·08
Coonab'rn	g	65·3[illegible]	[illegible]
P.Macqrie	b	64·1[illegible]	[illegible]
Wilcannia	b	67·4[illegible]	
Murr'undi	b	58·59	0·15
Cassilis..	b	60·31	0
Mus'br'ok	b	62·[illegible]0	0·0[illegible]
Dubbo...	g	63·35	0·[illegible]
Menindie	b	58·47	0
Mudgee..	g	68·41	0·15
Maitland.	b	57·43	0
Hill End.	c	51·31	0·3
Newcastle	b	64·48	0
Orange.	g	51·32	0·70
Bathurst	g	54·31	0·26
8 51		Ea	
Forb's	c	57·34	0·22
Mt Vict'ria	g	49·38	0·2[illegible]
Condob'ln	b	56·43	0·22
Picton..	o	56·36	0·05
Carcoar..	r	54·41	0·50
Wentw'th	b	60·4[illegible]	0·06
Young...	g	56·45	0·51
Wollgo'ng	b	65·42	0·2
Hay....	b	65·48	0·38
Moss Vale	b	57·42	0·08
Euston...	b	60·39	0
Goulburn	b	58·34	0·11
Wagga...	p	56·43	0·25
Cape Geo.	b	62·45	0
Queanb'n	g	76·35	0·15
Deniliq'in	b	55·41	0·36
Moruya..	n	60·41	0
Kiandra..	s	36·2	0

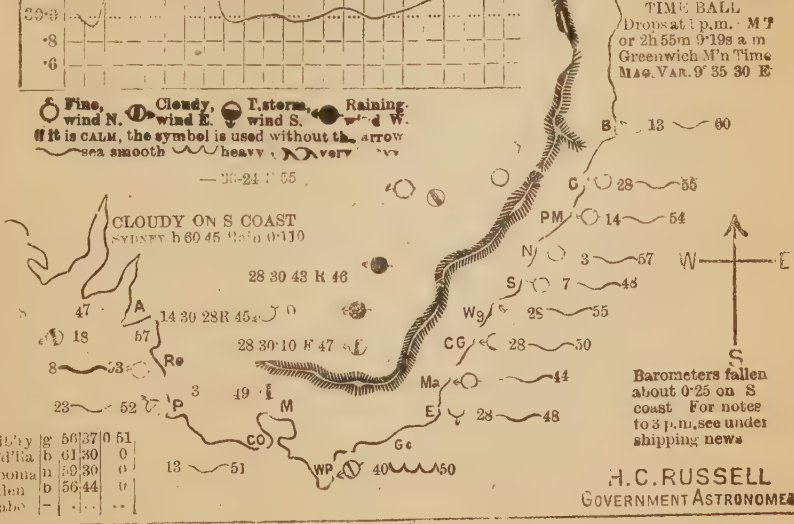
Albury	g	56	37	0·51
B'd'lla	b	61	30	0
	n	59	30	0
Cooma	b	56	44	0
Eden	–			
Gabo	–			

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth heavy very

— 36-24 F 55



B G, Wollongong
Cape George
Ma, Moruya
E, Eden
Gabo
W P, Wilsons P't
CO, Cape Howey
M, Melbourne
P, Portland
Bo, Bourke
Re, Roma
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD Port Darwin

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

Barometers fallen about 0·25 on S coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 25.

Western Australia: Fine clear weather, smooth sea, rising barometers; light E. wind at Perth, and W. at Albany. South Australia: Weather cloudy but without rain, smooth sea, light variable winds and rising barometers on coast. Rain—Borda, 0·440; Robe, 0·070. Port Augusta, calm, fine; Streaky Bay, S.S.E., 8, fine; Daly Waters, calm, fine; Powell's Creek and Tennant's Creek, fine and calm; Port Darwin, S.E., 8, fine, barometer 30 00 and rising. Victoria: Cloudy, raining and misty round coast with light N.W. winds, rising barometers, and smooth sea. Rain—Cape Otway, 0·050; Wilson's Promontory, 0·110; Portland, 0·040. New South Wales: Fine clear weather throughout colony, frosts inland, smooth sea, rising barometers, and light westerly winds on coast; no rain. Queensland: Brisbane, fine and clear, light S.W. wind, rising barometer, and moderate sea; Cooktown, fine and clear, light S.E. wind, no rain. 3 p.m. Observations.—Victoria: Barometers steady; Cape Otway, S.W., 18, showery, rather rough sea, temperature 51°; Portland, W.S.W., 28, raining, smooth sea, temperature 54°; Wilson's Promontory, W., 28, squally, moderate sea, temperature 52°. New South Wales: Wentworth, N.W., fine, temperature 54°; Albury, W., light, fine, temperature 56°; Forbes, calm, fine, temperature 52°; Moruya, S.E., 14, fine, temperature 56°; Sydney, S.W., 14, fine, smooth sea, temperature 58°; Port Macquarie, E., 14, fine, smooth sea, temperature 61°; Menindie, calm, fine, temperature 55°; Deniliquin, N.W., fine, temperature 59°; Goulburn, calm, fine, temperature 56°; Eden, N.E., 14, fine, light sea, temperature 58°; Cape George, S.W., 28, fine, smooth sea, temperature 58°; Newcastle, E.N.E., fine, smooth sea; Clarence River, S.E., 14, fine, moderate sea, temperature 66°. New Zealand: Heavy rain has fallen about Wellington; 260 inches recorded; weather now clearing; barometers show remarkably even pressure over the islands. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 1 inch above summer level; at Hay, 3 feet 6 inches above summer level; at Balranald, 4 feet 6 inches above summer level. Murray: At Albury, 3 feet above summer level; at Euston, 11 feet above summer level. Darling: At Wentworth, 9 feet 7 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED [illegible] TELEGRAMS for 9 A.M., JULY 25 1881, with Norm to 3 P.M

[illegible] Sydney Observatory.

[illegible] Long 104. 4m 50·81s E

Average [illegible] for 22 years 51·461

A[illegible] for 23 years from Jan 1st to June 30 31·997

Total R[illegible] from Jan. 1st to July 25 24 7·8

Ba[illegible] reduced to 32° Fah [illegible] Sea Level

Stations	w'ld's	w'ak'n	
Casino..	b	73 36	0
Tenterfield	o	62 27	0
Moree...	o	74 39	0
Grafton..	b	69 35	0
Gl'n Inn's	b	64 26	0
Inverell..	b	58 29	0
Bourke ..	b	65 37	0
Narrabri	b	64 35	0
Armidale	n	54 23	0
Bendem'r	–	. .	.
Gunned'h	–	. .	..
Coonam'le	b	62 30	0
Tamworth	b	67 27	0
Coonab'rn	n	62 22	0
P.Macqrie	b	64 43	0
Wilcannia	–	.. .	.
Murr'undi	b	56 37	0
Cassilis..	n	56 29	0
Mus'br'ok	n	59 29	0
Dubbo...	n	61 38	0
Menindie	–	.. ..	..
Mudgee ..	n	70 30	0
Maitland.	b	60 36	0
Hill End.	b	51 28	0
Newcastle	b	60 37	0
Orange.	b	46 29	0
Bathurst	n	44 25	0
18 57		Ea	
Forbes	b	59 30	0
McVict'ria	a	42 30	0
Condob'ln	b	48 36	0
Picton..	n	54 30	0 0b
Carcoar..	n	48 30	0
Wentw'th	–	.. ..	–
Young...	–	.. ..	..
Wollgo'ng	b	62 38	0
Hay....	–	.. .	..
Moss Vale	n	47 29	0
Euston...	–	.. ..	..
Goulburn	b	57 24	0
Wagga...	–	.. .	.
Cape Geo.	b	58 40	0
Queanb'n	n	55 28	0
Deniliq'in	–	.. ..	..
Moruya..	n	59 31	0
Kiandra..	–	. ..	.

Alb'ry	f	54	28	0
B'd'lla	n	67	27	0
Cooma	n	57	19	0
Eden	b	57	39	0
Gabo	–	..	..	..

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.

If it is CALM, the symbol is used without the arrow

sea smooth. heavy very heavy

0 30-26 R 48

CLOUDY ON S COAST

Sydney b 57 40 Rain 0·002

14 30-24 R 35

Wg, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. MT
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9 35 30 E

Barometers risen about 0·20 on E coast For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 26.

Western Australia: Fine and clear, light E. and N.W. winds, d smooth sea. South Australia: Cloudy round coast; sea ooth; wind, fresh S.W.; barometers steady; fine inland. reaky Bay, gloomy, S.S.E., 13; Port Augusta, fine, S., 8; ily Waters, fine and calm; Port Darwin, S.E., 8, fine; owell's Creek, calm, fine; Tennant's Creek, S.E., 8, fine. Rain: orda, 0·100; Robe, 0·070. Victoria: Weather cloudy; owery and squally round coast; winds W. and N.W.; sea oderate; barometers steady. Rain: Cape Otway, 0·110; ilson's Promontory, 0·160; Portland, 0·110. New South Wales: ne clear weather throughout; cool and frosty inland; light esterly winds; falling barometers and smooth sea on coast; no in. Queensland: Fine and clear, light S.E. and S.W. winds; rometers rising; sea smooth. 3 p.m. Observations.—Victoria: elbourne, W., 18, fine, temperature 56°; Portland, W.S.W., 34, owery, smooth sea, temperature 53°; Cape Otway, W., 28, oudy, moderate sea, temperature 53°; Wilson's Promontory, W., 0, showery, rather rough sea, temperature 49°. New South Vales: Wentworth, S.W., cloudy, temperature 53°; Deniliquin, W., 14, cloudy and threatening, temperature 59°; Albury, calm, ull, overcast, temperature 53°; Goulburn, calm, fine, temperature 5°; Forbes, calm, fine, temperature 54°; Eden, N.E., 14, fine, nooth sea, temperature 52°; Moruya, N.E., 14, fine, temperature 5°; Cape George, N.W., 28, fine, smooth sea, temperature 59°; ydney, W.N.W., 14, fine, smooth sea, temperature 58°; Newistle S.E., fine, smooth sea; Port Macquarie, S., 28, fine, smooth ea, temperature 60°; Clarence River, N.E., 14, light thunderorm, smooth sea, temperature 65°; Menindie, S.W., fine, temeratue 60°. New Zealand: Weather generally fine; barometers 0·00 to 29·80. State of Rivers.—Murrumbidgee: At Wagga, 3 eet 9 inches above summer level; at Hay, 3 feet above summer evel; at Balranald, 4 feet 6 inches above summer level. Murray: t Albury, 3 feet 2 inches above summer level; at Euston, 11 eet above summer level. Darling: At Wentworth, 9 feet 6 nches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from Telegrams for 9 a.m. JULY 29, 1881, with Notes to 3 p.m.

Sydney Observatory.

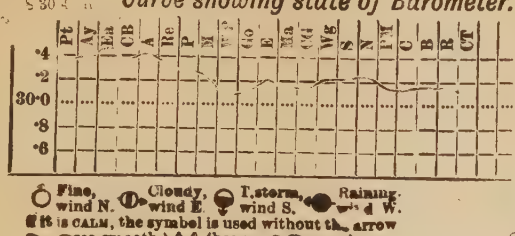
Mean Atmospheric Pressure for 22 years ... 51·461

Average for 23 years from Jan. 1st to June 30 ... 31·997

Potent[illegible] from Jan. 1st to July 26 ... 24·708

Barometers corrected to 32° Fah

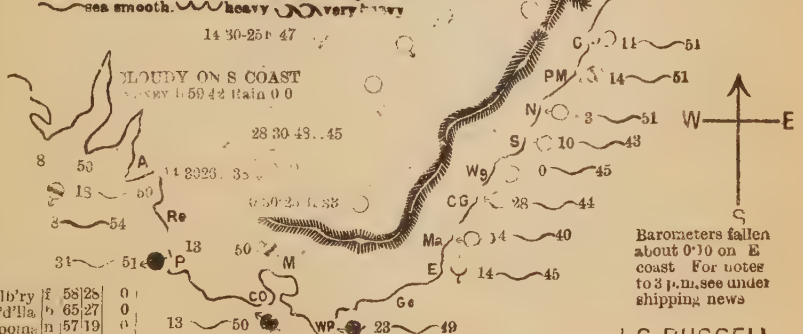
Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.

If it is CALM, the symbol is used without the arrow

sea smooth. heavy very heavy



tations	w				
asino..	b	74	39		0
nterfild	g	61	33		0
oree....	n	74	36		0
afton...	b	70	37		0
'n Inn's	g	60	30		0
verell..	b	57	28		0
ourke ..	b	62	38		0
arrabri	b	65	35		0
rmidale	n	55	97		0
endein'r	–				
anned'h	–				
onamble	b	69	31		0
anworth	b	66	25		0
onab'rn	n	63	21		0
Macqrie	g	63	46		0
ilcannia	b	56	36		0
urr'undi	b	55	53		0
assilis..	n	58	26		0
us'br'ok	n	59	39		0
ubbo...	n	61	37		0
enindie	b	58	43		6
udgee .	n	70	30		0
aitland.	b	55	39		0
ill End.	b	5[illegible]	27		0
ewcastle	b	65	40		0
range.	n	45	29		0
athurst	b	55	25		0
13 47		Ea			
Forb's	b	56	28		0
t Vict'ria	a	41	30		0
ondob'ln	b	45	30		0
cton..	b	58	26		0
arcoar..	n	47	28		0
entw'th	b	63	35		0
oung...	n	55	32		0
ollgo'ng	b	64	38		0
ay....	b	61	32		0
oss Vale	n	47	28		0
nston...	b	62	24		0
oulburn	b	55	22		0
agga...	b	54	29		0
ape Geo.	b	66	40		0
leanb'n	n	54	28		0
eniliq'n	n	58	33		0
oruya..	n	59	37		0
andra..	f	52	14		0

SG, Wollongong
CG, Cape George
Ma, Moruya
S, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·198 s on Greenwich M'n Time
MAG. VAR. 9° 35 30 E

METEOROLOGICAL REPORTS.—JULY 27.

Western Australia: Perth, gloomy, fresh E.N.E. wind, smooth a; Albany, fine, light N. wind, sea very smooth. South Australia: Cloudy round coast, barometers rising, wind light from S., a smooth, fine and clear inland; Streaky Bay, S.E., 8, gloomy; ort Augusta, S., 8, cloudy; Powell's Creek and Tennant's Creek, .E., 23, fine; Daly Waters, S.E., 23, fine; Port Darwin, calm and ne. Rain—Adelaide, 0·040; Eorda, 0·080. Victoria: Reports qually showery weather all round coast, with rather rough sea and sing barometers, wind from S.S.W. and S.E. Rain—Melbourne, ·050; Otway, 0·140; Wilson's Promontory, 0·350; and Portland, ·080. New South Wales: Fine clear weather all down coast as ar as Eden and at all inland stations; smooth sea, light W. and .W. winds and falling barometers on coast; showery at Eden; ool and frosty inland in early morning; light rains measured at e mouth of the Clarence (see map). Queensland: Brisbane, oudy, strong S.W. wind, barometers rising, sea smooth; Rockampton, fine, wind S.E.; Cooktown, fine, with fresh S.E. wind. p.m. Observations.—Victoria: Barometers high and steady; elbourne, S.W., 8, fine, temperature 49°; Portland, S., 28, assing showers, rough sea, temperature 51°; Cape Otwry, S., 18, oudy, smooth sea; Wilson's Promontory, S.W., 28, squally, ough sea, temperature 51°. New South Wales: Wentworth, E., cloudy, threatening, temperature 55°; Deniliquin, S.S.W., l, fine, temperature 59°; Albury, S., cloudy, temperature 57°; oulburn, calm, fine, temperature 57°; Eden, S.W., 30, squally, a smooth, temperature 51°; Moruya, S.E., 30, cloudy, moderate a, temperature 52°; Cape George, S., 42, fine, smooth sea, mperature 54°; Sydney, S., 28, fine, smooth sea, temperature °; Newcastle, S.W., fine, smooth sea; Port Macquarie, S., 42, ne, smooth sea, temperature 60°; Clarence River, S.E., fine, ooth sea, temperature 45°; Menindie, S.W., dull, temperature °. New Zealand: Heavy southerly swell on S.E. coast of New aland. State of Rivers—Murrumbidgee: At Wagga, 3 feet inches above summer level; at Hay, 3 feet above summer el; at Balranald, 4 feet 3 inches above summer level. Murray: Albury, 2 feet 10 inches above summer level; at Euston, 11 et above summer level. Darling: At Wentworth, 9 feet 6 hes above summer level; at Pooncarie, summer level; at enindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

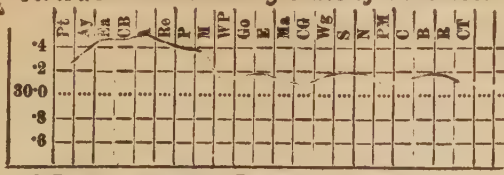
COMPILED from Telegrams for 9 A.M., JULY 27 1881, with News to 8 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10h. 4m. 50·81s *E*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to June 30 . . . 31·997
Total Rainfall from Jan. 1st to July 27 . . . 24·78
Barometers corrected to 32° Fah and Mean Se

S 30 61 R 44 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy

14 30-30 R 48

CLOUDY ON S COAST
SYDNEY h 59 42 Rain 0·0

14 30 36 R 55

14 30 22 R 44

Barometers fallen about 0·10 on E coast For notes see page under shipping news

C. RUSSELL
Government Astronomer

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Prom
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ba, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Stations.	W'r	W'y	Ma	R'in
Casino.	b	76	41	0
Tenterfield	o	63	30	0
Moree	b	76	37	0
Grafton...	f	69	33	0·05
Gl'n Inn's	b	61	27	0
[illegible]ereh..	b	59	26	0
Bourke ..	b	65	49	0
Narrabri	b	65	34	0
Armidale	n	53	92	0
Bendem'r	–	..	..	..
Gunned'h	–	..	..	..
Coonamble	b	62	35	0
Tamworth	–	..	..	..
Coonab'rn	n	64	23	0
P. Macqrie	b	64	44	0
Wilcannia	g	55	42	0
Murr'undi	b	55	32	0
Cassilis..	n	56	25	0
Mus'br'ok	n	61	29	0
Dubbo...	n	60	36	0
Menindie	g	66	49	0
Mudgee ..	n	70	27	0
Maitland.	b	57	36	0
Hill End.	b	48	25	0
Newcastle	b	68	39	0
Orange..	n	47	33	0
Bathurst	n	56	26	0
0 54		Ea		
Forbes	g	57	29	0
N'Vict'ria	a	47	29	0
Condob'lin	g	45	35	0
Picton..	–	..	..	..
Carcoar..	n	47	30	0
Wentw'th	–	..	..	..
Young...	n	54	35	0
Wollgo'ng	b	65	43	0
Hay....	b	61	39	0
Moss Vale	n	50	30	0
Euston...	b	60	28	0
Goulburn	b	58	27	0
Wagga...	g	55	33	0
Cape Geo.	b	62	40	0
Queanb'n	n	50	26	0
Deniliq'in	b	57	35	0
Moruya..	n	69	36	0
Kiandra..	o	50	5	0

Alb'ry	b	56	30	0
B'd'lla	n	64	26	0
Cooma	n	59	16	0
Eden	p	57	41	0
Gabo	–	..	..	..

METEOROLOGICAL REPORTS.—JULY 28.

Western Australia: Calm and fine at Albany, sea dead calm; Perth, fine, light E.N.E. wind. South Australia: Cloudy round coast, sea smooth, wind fresh from E. and S.E., barometers rising, no rain falling, fine and clear inland; Port Darwin, fine, S.E., 18; Daly Waters, fine, S.E., 18; Tennant's and Powell's Creeks, fine, wind S.E., 23; Port Augusta, calm and cloudy; Streaky Bay, calm and cloudy; rain at Cape Borda, 0·010. Victoria: Cloudy round coast, S.E. wind, rising barometers and rough sea; passing showers at Portland; high sea at Cape Otway; fine, with hoar frost, at Melbourne; rain Portland, 0·160; Melbourne and Cape Otway, 0·040. New South Wales: Fine clear weather, smooth sea, rapidly rising barometers and fresh S.W. winds down coast; cool and clear, with light and variable winds and rising barometers, inland; rain, Newcastle, 0·250; Moss Vale, 0·020. Queensland: Fine at Cooktown, light S.E. wind; fine at Brisbane, wind S.W.; Rockhampton, showery, wind S.W., rain 0·110. 3 p.m. Observations.—Victoria: Melbourne, S., 13, fine, temperature 51°; Portland, S.E., 18, raining moderate sea, temperature 52°; Cape Otway, S.E., 18, cloudy, rather rough sea, temperature 52°; Wilson's Promontory, W.S.W., 13, cloudy, slight sea, temperature 50°. New South Wales: Deniliquin, calm, fine, temperature 57; Albury, S., fine, temperature 53°; Goulburn, S.S.E., fine, temperature 55°; Forbes, calm, fine, temperature 52°; Eden S.W., 42, fine, light sea, temperature 52°; Moruya, S.E., 42, fine, temperature 54°; Cape George, S., 42, fine, heavy sea, temperature 52°; Sydney, S.W., 28, fine, little sea, temperature 52°; Newcastle, S., dull, moderate sea; Port Macquarie, S., 56, fine, moderate sea, temperature 59°; Clarence River, S.S.E., 56, cloudy, moderate sea, temperature 62°. New Zealand: Change of weather coming on; barometers 30·10 in North Island, 29·40 in South. State of Rivers: Murrumbidgee, at Wagga, 3 feet 6 inches above summer level; at Hay, 2 feet above summer level; at Balranald, 4 feet 6 inches above summer level; Murray, at Albury, 2 feet 9 inches above summer level; at Euston, 11 feet above summer level; Darling, at Wentworth, 9 feet 6 inches above summer level; at Pooncaire, Menindi, and Wilcannia, at summer level.

Station				
Casino	b	73	41	0
Tenterfield	n	60	30	0
Moree....	b	90	45	0
Grafton...	b	72	41	0
G'ff'n Inn's	n	58	24	0
Inverell..	b	57	25	0
Bourke ..	b	65	60	0
Narrabri	b	64	39	0
Armidale	g	52	25	0
Beudem'r	–	..	..	..
Gunned'h	b	56	23	0
Goonam'le	b	58	34	0
Tamworth	b	64	25	0
Goonab'rn	b	56	23	0
P.Macqrie	b	62	47	0
Wilcannia	b	57	40	0
Murr'undi	b	55	32	0
Cassilis..	b	54	31	0
Mus'br'ok	n	59	36	0
Dubbo...	[illegible]	6[illegible]	57	0
Meniindie	b	57	40	0
Mudgee	b	69	33	0
Maitland.	b	57	[illegible]	0
Hill End.	n	47	26	0
Newcastle	b	64	41	0 23
Orange.	b	48	30	0
Bathurst	n	51	26	0
18 51		Ea		
Forb's	n	59	27	0
Mt Vict'ria	b	45	29	0
Condob'lin	b	47	38	0
Picton..	–	..	..	..
Carcoar..	n	45	31	0
Wentw'th	b	56	33	0
Young...	n	54	36	0
Wollgo'ng	b	62	42	0
Hay....	b	58	32	0
Moss Vale	b	51	30	0 02
Euston...	n	61	25	0
Goulburn	b	56	22	0
Wagga...	b	55	27	0
Cape Geo.	n	56	42	0
Queanb'n	n	55	28	0
Deniliq in	n	56	29	0
Moruya..	n	58	34	0
Kiandra..	b	50	2[illegible]	0

WEATHER MAP.

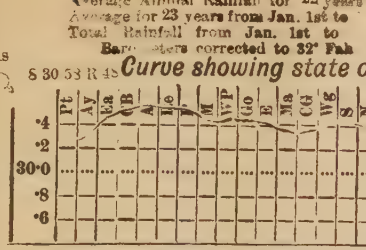
COMPILED from TELEGRAMS for 9 A.M., JULY 28 1881, with News to 3 P.M.

Sydney Observatory.

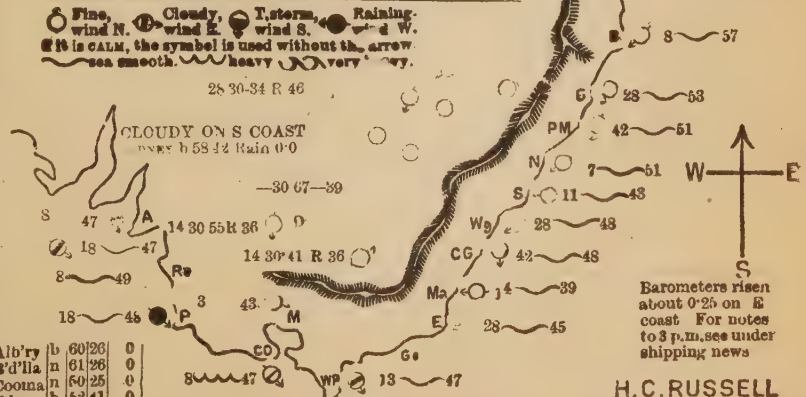
Lat. 33° 51′ 41″ *S*, *Long.* 16h. 4m. 59·81s *E*.

Average Annual Rainfall for 22 years ..... 51·461.
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to July 28 . 24·708.
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WS, Wollongong
CG, Cape George.
Ma, Moruya
E, Eden
Ge, Gabo
WP, Wilsons Pr'm.
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs.
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·198 A.M.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0·25 on E coast For notes to 3 p.m. see under shipping news

Alb'ry	b	60	26	0
B'd'lla	n	61	26	0
Cooma	n	60	25	0
Eden	b	52	41	0
Gabo	–	..	..	..

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 29.

Western Australia: Fine clear weather, with smooth sea, and light E.N.E. winds and calms. South Australia reports fine weather, barometer high and steady, sea smooth, wind light from N.E., and calm: Streaky Bay, S.S.E., 8, fine; Port Augusta, calm, fine; Daly Waters, S.E., 23, fine; Port Darwin, calm, fine; Tennant's Creek and Powell's Creek, S.E., 8, fine. Victoria: Weather still cloudy round coast, barometers rising, sea smooth, wind light from S.E.; dense fog at Melbourne. Rain—Cape Otway, 0·050; Portland, 0·030. New South Wales: Fine clear weather prevails both inland and on coast, but a band of cloudy weather stretched at 9 a.m. over the coast from Sydney to Newcastle, and inland as far as mountains. Raining at Newcastle and Maitland; light W. winds, smooth sea, and rising barometers on coast. Queensland: Weather fine and clear, light S.E. and S.W. winds, rising barometers and smooth sea. 3 p.m. Observations. —New South Wales: Wentworth, S., fine, temperature 55°; Albury, calm, fine, temperature 55°; Forbes, calm, fine, temperature 54°; Moruya, S.E., 20, fine, moderate sea, temperature 55°; Sydney, S.S.W., 28, fine, little sea, temperature 53° Port Macquarie, S., 42, fine, smooth sea, temperature 59°; Menindi, S., fine, temperature 51°; Deniliquin, S.E., 14, fine, temperature 57°; Goulburn, calm, fine, temperature 56°; Eden, S.W., 14, fine, light sea, temperature 56°; Cape George, S., 42, fine, little sea, temperature 55°; Newcastle, S.W., dull, moderate sea; Clarence River, S., 42, showery, moderate sea, temperature 57°. State of Rivers: Murrumbidgee, at Wagga, 3 feet 6 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 3 feet 10 inches above summer level; Murray, at Albury, 2 feet 8 inches above summer level; at Euston, 11 feet above summer level; Darling, at Wentworth, 9 feet 6 inches above summer level; at Pooncarie, Menindi, and Wilcannia, at summer level.

WEATHER MAP.

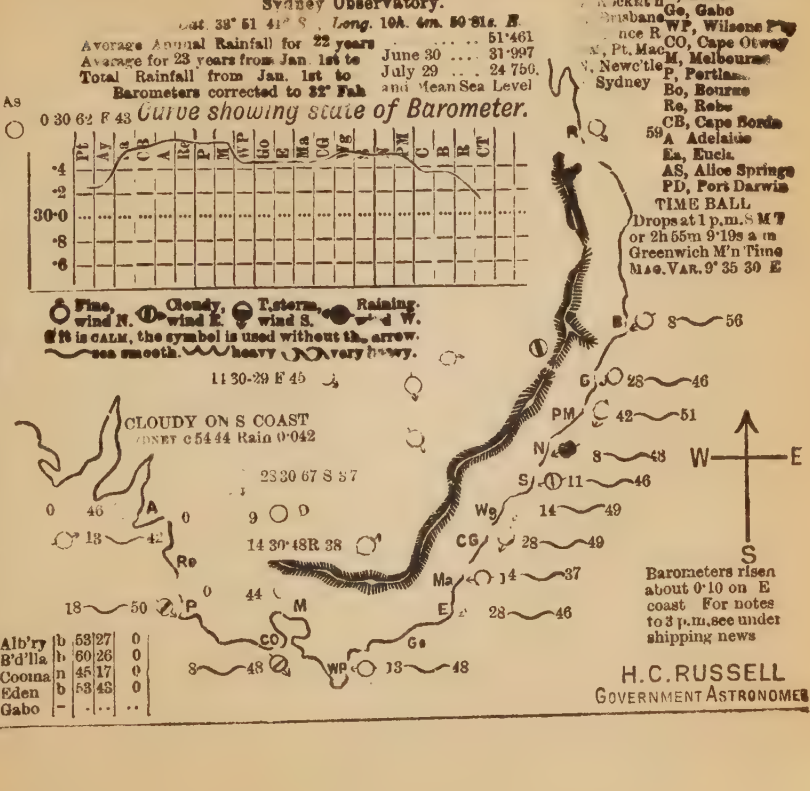
COMPILED from TELEGRAMS for 9 A.M., JULY 29 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51 41" S. Long. 10h. 4m. 50·81s. E.

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to June 30 .... 31·997
Total Rainfall from Jan. 1st to July 29 .... 24 756.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.				
Casino..	c	65	36	0
Tenterfield	n	59	29	0
Moree....	b	74	41	0
Grafton..	b	69	40	0
Gl'n Inn's	b	66	26	0
Inverell..	b	52	26	0
Bourke ..	b	62	37	0
Narrabri	b	61	41	0
Armidale	b	52	29	0
Bendem'r	–	.	.	..
Gunned'h	b	67	35	0
Coonam'le	b	61	32	0
Tamworth	b	63	28	0
Coonab'rn	n	57	23	0
P.Macqrie	b	60	46	0 09
Wilcannia	b	53	34	J
Murr'undi	b	51	42	0
Cassilis..	g	53	30	0
Mus'br'ok	b	58	42	0
Dubbo...	b	62	38	0
Menindie	b	54	32	0
Mudgee..	b	67	30	0
Maitland,	r	57	46	0
Hill End.	b	47	26	0
Newcastle	r	64	44	0 66
Orange	n	47	28	0
Bathurst	n	50	24	0
18 52		Ea		
Forb's	b	54	29	0
Mt Vict'ria	g	41	30	0
Condob'lin	b	46	35	0
Picton..	g	54	32	0
Carcoar..	n	47	30	0
Wentw'th	b	56	32	0
Young...	n	54	35	0
Wollgo'ng	b	59	44	0 07
Hay...	n	57	30	0
Moss Vale	b	49	39	0
Euston...	n	59	25	0
Goulburn	b	53	23	0
Wagga...	b	49	28	0
Cape Geo.	b	54	43	0 05
Queanb'n	n	55	27	0
Deniliq'in	n	56	32	0
Moruya..	o	56	34	0
Kiandra..	o	50	10	0
Alb'ry	b	53	27	0
B'd'lla	b	60	26	0
Cooma	n	45	17	0
Eden	b	53	43	0
Gabo	–	.	...	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—JULY 30.

Western Australia: Barometers 30·10 to 30·20; weather fine.
uth Australia: Barometers on coast, 30·60, same inland; eather fine generally. Victoria: Cloudy, with light variable nds; barometers still high and steady; weather; light passing owers at Portland, and showery during night at Wilson's Promontory; foggy at 9 a.m. at Melbourne; rain at Wilson's 0·050, Portnd 0·060, Cape Otway 0·020, Melbourne 0·020. New South Wales: ne and clear at generality of stations; frosty inland; light S.W. d W. winds; slowly rising barometer and smooth sea on ast. For particulars re weather at each station, rain, nd, &c., see Weather Map. 3 p.m. Observations.—New uth Wales: Wentworth, S.E., fine, clear, temperature, ; Deniliquin, calm, fine, temperature 59; Goulburn, calm, e, temperature 56°; Forbes, calm, fine, temperature 55; Eden, W., 14, cloudy, temperature 58; Albury, S.E., 14, fine, temature 57°; Cape George, S., 14, fine, temperature 5 °; Sydney, E., 14, cloudy, temperature 51°; Newcastle, S., cloudy; Port acquarie, S., fine, temperature 59°; Clarence River, S., 30, fine, emperature 59°; Menindie, S., fine, temperature 52. New Zeald, fine generally, with cold, cloudy weather, temperature 45°, rometers 29·90 in the north, 30·20 in south. State of Rivers: rrumbidgee: At Wagga, 3 feet above summer level; at Hay, eet above summer level; at Balranald, 3 feet 10 inches above mer level. Murray: At Albury, 2 feet 6 inches above summer level; at Euston, 11 feet above summer level. Darling: Wentworth, 9 feet 6 inches above summer level; at Poonie, summer level; at Menindie, summer level; at Wilcannia, mmer level.

WEATHER MAP.

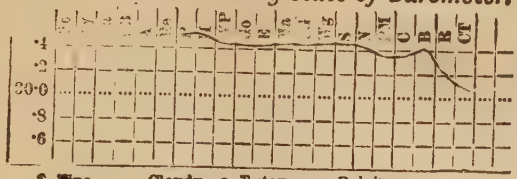
COMPILED from TELEGRAMS for 9 A.M., JULY 30 1881, with Norms to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to July 30 .... 24 847.
Barometers corrected to 32° Fah and Mean Sea Level

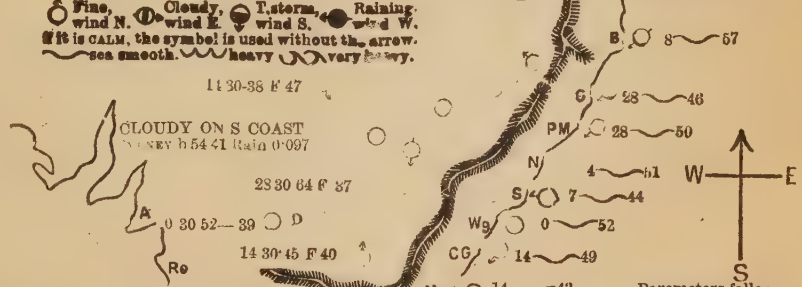
Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

Stations.	wt	ht	ma	R'in
Casino...	o	64	35	0
Tenterfild	b	56	36	0
Moree....	b	76	41	0
Grafton...	g	67	37	0
Gl'n Inn's	n	63	25	0
Inverell..	b	57	25	0
Bourke ..	b	63	39	0
Narrabri	b	64	40	0
Armidale	b	52	29	0
Bendem'r	–	..	..	..
Gunned'h	g	70	32	0
Cooma'nk	b	65		0
Tamworth	c	69	51	0 69
Coonab'rn	b	62	22	0
P.Macqrie	b	60	43	0
Wilcannia	b	55	37	0
Murr'undi	g	52	35	0
Cassilis..	g	54	30	0
Mus'br'ok	n	59	36	0
Dubbo...	b	62	36	0
Menindie	b	55	38	0
Mudgee..	n	67	..	0
Maitland.	c	58	40	0
Hill End.	n	46	37	0
Newcastle	c	64	45	0 83
Orange..	n	46	38	0
Bathurst	n	56	24	0
		Ea		
Forb's	b	56	33	0
MtVict'ria	n	45	31	0
Condob'lin	–	..	..	..
Picton..	–	..	..	..
Carcoar..	n	47	30	0
Wentw'th	n	58	31	0
Young...	n	54	34	0
Wollgo'ng	b	60	42	0
Hay...	b	60	30	0
Moss Vale	f	46	30	0
Euston...	b	60	18	0
Goulburn	f	55	45	0
Wagga...	b	52	28	0
Cape Geo.	b	55	41	0
Queanb'n	n	55	27	0
Deniliq'in	n	58	28	0
Moruya..	o	55	36	0
Kiandra..	n	50	14	0

Alb'ry	b	66	27	0
B'd'lla	g	63	28	0
Cooma	n	59	21	0
Eden	b	55	45	0
Gabo	b	55	36	0



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Ge, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Ro, Roma
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockhampton
B, Brisbane
C, Clarence R
Pt, Pt. Mac
N, Newcastle
S, Sydney

TIME BALL
Drops at 1 p.m. - M T or 2h 55m 9·19s a.m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·08 on S E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 1[illegible].

Western Australia.—Fine, with light S. winds and [illegible] rising barometers; rain at Albany, 0·110. South Austra[illegible] weather [illegible]; heavy [illegible] smooth [illegible] rain; [illegible] Tem[illegible] part fine; broken clouds at Wilson's Promontory and [illegible] [illegible] jority of stations; cloudy, N.W., near Murrumbidgee, [illegible] and Mudgee; on coast the weather is fine, with light [illegible] S.W. winds, falling barometers, and smooth sea. [illegible] with light S.E. and S.W. winds; Cooktown, [illegible] wind; rain, 0·040. 3 p.m. Observations.—[illegible] light [illegible] temperature 55°. New South Wales: Wentworth, calm, [illegible] Forbes, calm, [illegible] smooth sea, temperature [illegible], Mendindie, calm, [illegible] 51°; Coolbaroo, calm, [illegible] temperature [illegible], Bilda, [illegible] light sea, temperature [illegible]; [illegible] smooth [illegible] River, S., [illegible] Murrumbidgee [illegible] at [illegible] above summer level [illegible] summer level; at [illegible] At Wentworth, [illegible] Mendindie, and Wilcannia, [illegible] level.

WEATHER MAP.

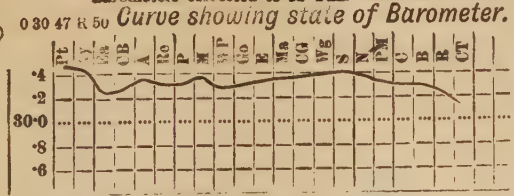
COMPILED from TELEGRAMS for 9 A.M., AUGUST 1 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S.; Long. 10h. 4m. 50·8s E.

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to June 30 ... 31·997
Total Rainfall from Jan. 1st to August 1... 24 893.
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.

Stations.	W'th	M'r	Ma	R'in
Casino..	o	69	38	0
Tenterfild	b	57	24	0
Moree....	b	72	39	0
Grafton..	b	71	48	0
Gl'n Ina's	n	62	27	0
Inverell..	b	58	29	0
Bourke ..	b	65	39	0
Narrabri	b	64	40	0
Armidale	g	51	29	0
Bendem'r	–	..	..	..
Gunned'h	–	..	..	..
Coonam'le	b	67	32	0
Tamworth	b	67	29	0
Coonab'rn		60	22	0
P. Macqrie	b	62	44	0
Wilcannia	b	57	37	0
Murr'undi	g	52	32	0
Cassilis..	c	55	31	0
Mus'br'ok	g	66	39	0
Dubbo...	o	59	35	0
Menindie	n	61	32	0
Mudgee	g	65	32	0
Maitland.	o	57	42	0 12
Hill End.	c	47	33	0
Newcastle	b	61	45	0 39
Orange..	n	4[illegible]	30	0
Bathurst	o	58	26	0
23 42		Ea		
Forb's	b	59	30	0
Mt Vict'ria	g	46	32	0 04
Condob'lin	–	..	..	..
Picton..	b	59	33	0
Carcoar..	b	49	30	0
Wentw'th	b	62	45	0
Young...	b	56	37	0
Wollgo'ng	b	61	43	0
Hay...	b	65	31	0
Moss Vale	f	49	36	0 03
Euston...	b	70	42	0
Goulburn	b	59	36	0 05
Wagga...	b	49	29	0
Cape Geo.	b	54	41	0 19
Queanb'n	n	61	29	0
Deniliq'in	n	62	28	0
Moruya..	n	57	37	0 04
Kiandra..	o	40	4	0

Alb'ry	b	61	22	0
B'd'lla	b	64	32	0 05
Cooma	b	53	29	0
Eden	b	75	40	0
Gabo	–	..	..	..

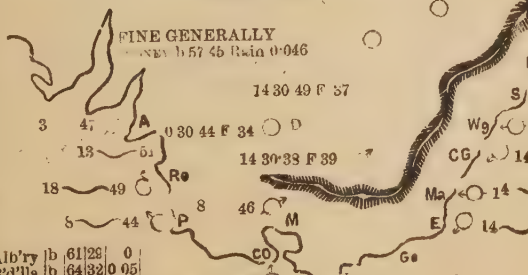
FINE GENERALLY
Sydney b 57 45 Rain 0·046

14 30 49 F 57

0 30 44 F 34

14 30 38 F 39

14 30 33 F 50



R, Rockh't'n
B, Brisbane
C, Clunce R
PM, Pt. Mac
N, Newc'tle
Sydney

Wo, Wollongong
Co, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Prom
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rene
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·198 s m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

W — E
S

Barometers fallen about 0·08 on E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 2.

stern Australia: Winds E.N.E., barometers 30·40. South alia: Barometers 30·31 on coast, 30·49 inland, light north- winds, cloudy weather. Victoria: Weather fine and clear, N.W. and N. wind round coast, sea smooth, barometers r, no rain, hoar frost at Melbourne. New South Wales: Fine weather at generality of stations, cloudy up near Queensland r, smooth sea, light westerly winds, and falling barometers ast. For rainfall, see weather map. Queensland: Brisbane, with strong N.E. wind, falling barometer and moderate sea; town and Rockhampton, fine, with light S.E. winds, no rain. . Observations.—Victoria: Melbourne, W.N.W., 8, cloudy, erature 58·; Cape Otway, W.S.W., 48, squally, rough sea, erature 52·; Portland, W., 34, showery, smooth sea, tempera- 53·; Wilson's Promontory, W., 23, cloudy, smooth sea, erature 53·. New South Wales: Wentworth, calm, fine, erature 54·; Albury, S.W. light, fine, temperature 55·; es, calm, fine; Moruya, E.N.E., 14, fine, smooth sea, tem- ure 53·; Sydney, N.E., 10, fine, smooth sea, temperature 51·; ndie, S., fine, temperature 55·; Deniliquin, W.S.W., 14, fine, erature 60·; Goulburn, calm, fine, temperature 57·; Eden, E., 14, fine, smooth sea, temperature 57·; Cape George, calm, smooth sea, temperature 58·; Newcastle, W.N.W., cloudy, th sea; Clarence River, S.E., 20, smooth sea, temperature State of Rivers.—Murrumbidgee: At Wagga, 3 feet above ner level; at Hay, 3 feet above summer level; at Balranald, 9 inches above summer level. Murray: At Albury, 2 feet hes above summer level; at Euston, 10 feet 11 inches above ner level. Darling: At Wentworth, 9 feet 4 inches above ner level; at Pooncarie, Menindie, and Wilcannia, summer

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 2 1881, with News to 8 p.m.

Sydney Observatory.

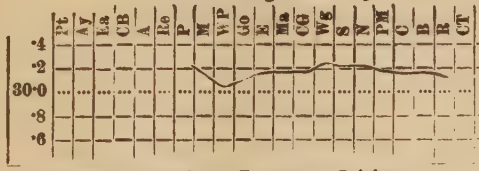
Lat. 33° 51′ 41″ *S.*; *Long.* 10h. 4m. 50·8s. *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 .... 36·193
Total Rainfall from Jan. 1st to August 2 .... 24·903.
Barometers corrected to 32° Fah. Mean Sea Level

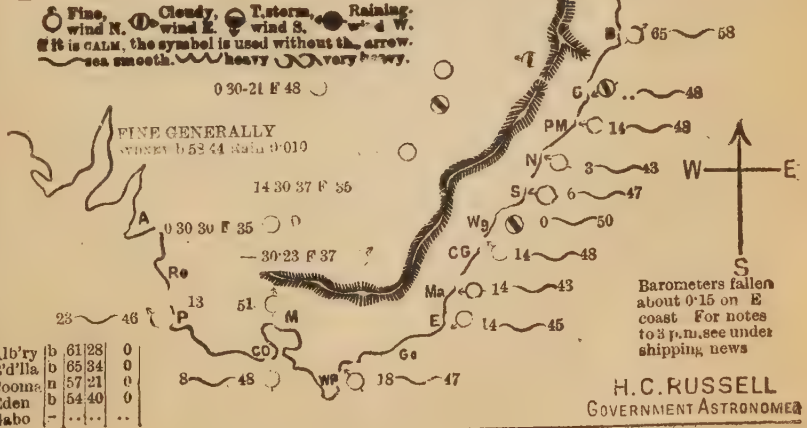
Stations.	W'd	M'x	M'n	R'in
Casino..	c	68	38	0·01
Tenterfild.	c	53	32	0
Moree....	b	75	46	0
Grafton..	c	68	44	0
Gl'n Inn's	g	60	32	0
Inverell..	b	68	35	0
Bourke ..	b	66	39	0
Narrabri	b	69	42	0
Armidale	g	52	29	0
Bendem'r	–	..	..	..
Gunned'h	g	71	32	0
Coonam'le	–	..	..	.
Tamworth	c	69	37	0
Coonab'rn	–	..	..	..
P.Macqrie	b	63	44	0
Wilcannia	b	59	36	0
Murr'undi	g	53	36	0
Cassilis	–	..	..	..
Mus'br'ok	g	63	35	0
Dubbo...	c	60	36	0
Menindie	b	68	35	0
Mudgee..	–	..	..	..
Maitland.	b	58	42	0·14
Hill End.	–	..	..	.
Newcastle	b	64	40	0
Orange..	g	47	32	0
Bathurst	–	..	..	..
		Ea		
Forbes	b	61	36	0
MtVict'ria	b	47	35	0·02
Condob'lin	b	45	35	0
Picton..	c	58	34	0
Carcoar..	–	..	..	..
Wentw'th	n	65	30	0
Young...	b	58	36	0
Wollgo'ng	c	62	41	0
Hay....	b	65	31	0
Moss Vale	b	52	36	0
Euston...	b	70	18	0
Goulburn	b	60	27	0
Wagga...	b	54	30	0
Cape Geo.	b	60	42	0
Queanb'n	b	56	30	0
Deniliq'in	b	61	28	0
Moruya..	n	58	41	0
Kiandra..	o	50	5	0
Alb'ry	b	61	28	0
B'd'lla	b	65	34	0
Cooma	n	57	21	0
Eden	b	54	40	0
Gabo	–	..	..	..

As

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.



W, Wellington
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rene
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 0·19s a.m.
Greenwich M'n Time
MAG. VAR. 9 35 30 E

Barometers fallen about 0·15 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 3.

Western Australia: Fine, clear weather, with N.W. winds South Australia: Cloudy around S. coast, with light westerly winds and steady barometers; Streaky Bay, N., 13, gloomy; Port Augusta, N., 8., gloomy; Daly Waters, S.E., 23, fine; Port Darwin, S.E., 8, fine; rain—Adelaide 0·110, Borda 0·180, Robe 0·190. Victoria: Cloudy all round coast, with light N.W. winds, rising barometers, and rough sea, light rain falling at Portland: rain—Melbourne 0·140, Otway 0·450, Portland 0·230, Wilson's Promontory 0·120 New South Wales: Fine, clear weather, light W. winds, falling barometers, and smooth sea on coast, cloudy near Queensland border on coast, rain at Clarence River Heads, cool and frosty inland at 9 a.m. Queensland: Brisbane, cloudy, with strong S.W. wind, rain 0·120; Rockhampton, fine. 3 p.m. Observations—Victoria: Melbourne, N.N.W., 8, cloudy, temperature 52°; Cape Otway, N.W., 13, showery, sea very high, temperature 51°; Portland, W., 34, dull, sea rather rough, temperature 52°; Wilson's Promontory, W., 13, misty, sea smooth, temperature 49°. New South Wales: Wentworth, S.W., cloudy, temperature 57°; Albury, calm, cloudy, temperature 56°; Forbes, calm, fine, temperature 48°; Moruya, N.E., 28, fine, sea smooth, temperature 57°; Sydney, S.S.W., 14, fine, sea smooth, temperature 57°; Port Macquarie, S.S.E., 28, fine, sea smooth, temperature 60°; Menindie, calm, cloudy, temperature 56°; Deniliquin, calm, dull, temperature 61°; Goulburn, calm, fine, temperature 58°; Eden, S.W., 14, fine, sea smooth, temperature 57°; Cape George, calm, fine, sea smooth, temperature 57°; Newcastle, S.E., fine, sea smooth; Clarence River, S., 42, showery, sea smooth, temperature 58°. New Zealand: Fine generally, heavy sea on the east coast. State of Rivers.—Murrumbidgee: At Wagga, 3 feet above summer level; at Hay, 3 feet above summer level; at Balranald, 3 feet 8 inches above summer level. Murray: At Albury, 2 feet 6 inches above summer level; at Euston, 10 feet 9 inches above summer level. Darling: At Wentworth, 9 feet 3 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 8 1881, with NOTES to 3 P.M.

Sydney Observatory

Lat. 33° 51′ 41″ S ; Long 10h 4m 59·81s E.

Rainfall for 22 years 51·461

Rainfall for 23 years from Jan. 1st to July 31 .. 36·193

Rainfall for 1881 Jan. 1st to August 3 24·903

Barometers corrected to 32° Fah

Curve showing state of Barometer.

Stations	W'th	M'x	M.t	Rain
Casino..	o	71	37	0
Tenterfield	c	56	29	0 17
Moree....	b	75	41	0
Grafton...	c	65	48	39
Gl'n Inn's	n	57	27	0
Inverell..	b	62	56	0
Bourke ..	b	67	40	0
Narrabri	b	65	37	0
Armidale	b	49	26	0
Bendem'r	–	..	..	..
Gunned'h	–	..	..	.
Goonam'le	b	66	33	0
Tamworth	b	67	28	0
Goonab'rn	a	64	21	0
P.Macqrie	b	63	43	0
Wilcannia	b	57	38	0
Murr'undi	n	55	36	0 19
Cassilis..	n	52	32	0
Mus'br'ok	b	59	33	0
Dubbo...	n	56	34	0
Menindie	b	64	35	0
Mudgee.	n	64	24	0
Maitland.	n	57	44	0
Hill End.	b	42	31	0
Newcastle	b	61	42	0
Orange..	n	50	28	0
Bathurst	n	5[illegible]	21	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Forbes	b	57	28	0
MtVict'ria	b	47	31	0
Condob'lin	b	46	.	0
Picton..	n	60	25	0
Carcoar.	b	48	28	0
Wentw'th	b	64	33	0
Young...	n	58	32	0
Wollgo'ng	n	64	43	0
Hay...	b	60	30	0
Moss Vale	b	51	32	0
Euston...	b	63	33	0
Goulburn	b	56	28	0
Wagga...	g	54	32	0
Cape Geo.	b	61	30	0
Queanb'n	n	55	29	0
Deniliq in	b	61	31	0
Moruya..	n	62	38	0
Kiandra..	b	50	5	0

Alb'ry	b	60	32	0
B'd'lla	n	65	30	0
Cooma	n	58	20	0
Eden	c	62	43	0
Gabo	–	..	..	..

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 4.

Western Australia: Perth, fine, light E.N.E. wind, sea very
ooth; Albany, gloomy, light N. wind; rain, 0·010. South
stralia: Cloudy round south coast, winds light from south,
rometers rising, sea smooth, fine inland; Streaky Bay, S.W., 8,
omy—rain, 0·040; Port Augusta, calm, cloudy, 0·140; Daly
ters, S.E., 23, fine; Port Darwin, S.E., 18, fine; Tennant's
eek, fine, strong S.E. wind; Powell's Creek, fine, light S. wind.
in—Adelaide, 0·300; Robe, 0·020; and Borda, 0·170. Victoria:
udy, showery, and squally round coast, sea moderate, baro-
ters rising, wind westerly, rough sea at Cape Otway. Rain—
lbourne, 0·020; Portland, 0·150; Wilson's Promontory, 0·250;
l Cape Otway, 0·250. New South Wales: Fine and clear in-
d, cloudy on coast south of Sydney, smooth sea all down, with
ht W. and S.W. winds, and steady barometers; cool and frosty
9 a.m. at inland stations; cloudy in S.W. districts, at Deniliq-
n, Albury, and Young. Queensland: Fine, light S.W. winds,
ometers rising, sea smooth. 3 p.m. Observations.—Victoria:
lbourne, S.E., cloudy, temperature 52°; Cape Otway, W.S.W.,
cloudy, rough sea, temperature 51°; Portland, S.W., 34,
udy, moderate sea, temperature 53°; Wilson's Promontory,
..., 28, showery and squally, rather rough sea, temperature 51°.
South Wales: Wentworth, S., light, dull, temperature 59°;
illiquin, calm fine, temperature 62°; Albury, W., light,
very, temperature 66°; Goulburn, W., fine, temperature 58°;
bes, calm, cloudy, temperature 52°; Eden, S.W., 42, fine,
oth sea, temperature 6[illegible]°; Moruya, N.E., 42, fine, smooth sea,
perature 60°; Cape George, S.E., 28, fine, smooth sea, tem-
ture 60°; Sydney, W., 14, fine, smooth sea, temperature 61°;
castle, W., fine, smooth sea; Port Macquarie, E.S.E., 14,
oth sea, temperature 60°; Clarence River, S., 42, showery,
th sea, temperature 62°. New Zealand: Fine weather in
, with N.W. winds; heavy swell from south; barometers,
North Island, 29·80 in South. State of Rivers.—Murrum-
e: At Hay 3 feet above summer level; at Balranald, 3 feet
summer level. Murray: At Albury, 2 feet 4 inches above
mer level; at Euston, 10 feet 7 inches above summer level.
g: At Wentworth, 9 feet 2 inches above summer level;
oncarie, summer level; at Menindie, summer level; at
nnia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., 1889, with Notes to 3 P.M.

Sydney Observatory.

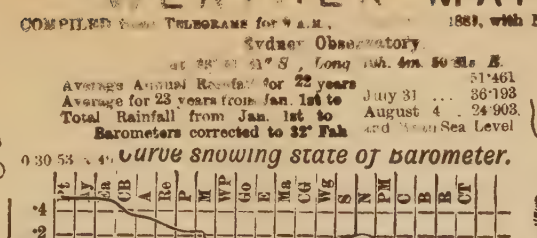
Lat. 33° 52′ 12″ S., Long. 151h. 4m. 50·8s. E.

Average Annual Rainfall for 22 years 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 4 . 24·903.
Barometers corrected to 32° Fah and Mean Sea Level

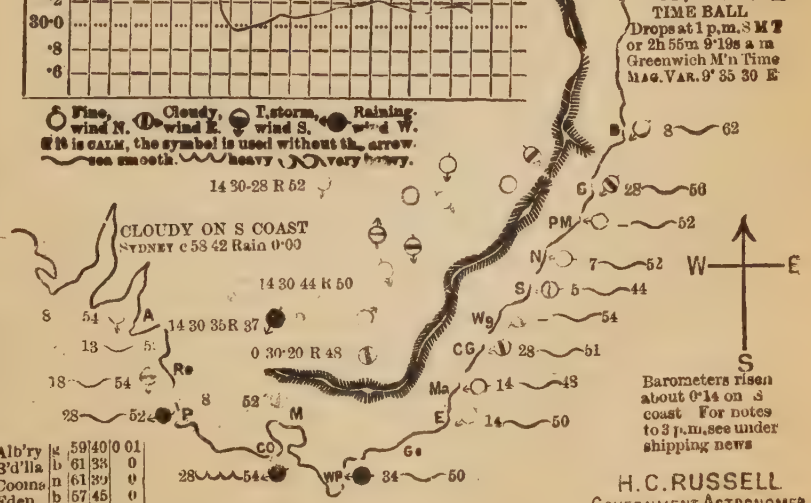
Stations.	Wt	M'x	M.	R'in
Casino...	c	67	41	0 01
Tenterfild	o	58	27	0
Moree....	b	74	37	0
Grafton..	b	65	50	0
Hl'n Ian's	b	65	28	0
Inverell..	b	59	31	0
Bourke ..	b	68	43	0
Narrabri	n	64	34	0
Armidale	g	51	30	0
Bendem'r	–	..	..	..
Gunned'h	b	73	26	0
Goonam'le	b	62	32	0
Tamworth	b	68	26	0
Goonab'rn	n	59	23	0
P. Macqrie	b	63	45	0
Wilcannia	g	58	47	0
Murr'undi	b	54	32	0
Cessilis..	n	51	33	0
Mus'br'ok	b	61	28	0
Dubbo...	b	55	26	0
Menindie	g	69	40	0
Mudgee..	g	65	30	0
Maitland.	o	57	36	0
Hill End.	b	47	35	0
Newcastle	b	62	40	0
Orange..	g	47	32	0
Bathurst	c	57	27	0
6 55		Ea		
Corb's	b	55	31	0
Mt Vict'ria	c	42	35	0
Condob'lin	g	50	39	0
Picton..	g	58	30	0
Carcoar.	g	48	34	0
Wentw'th	b	64	43	0 01
Young...	g	55	40	0
Wollgo'ng	c	67	43	0
Hay....	f	59	38	0
Moss Vale	g	55	38	0
Euston...	b	71	38	0
Goulburn	g	60	38	0
Wagga...	g	56	38	0
Cape Geo.	c	63	45	0
Queanb'n	b	54	33	0
Deniliq'in	d	59	40	0
Moruya..	n	60	40	0
Kiandra..	c	40	6	0

Alb'ry	g	59	40	0 01
B'd'lla	b	61	33	0
Cooma	n	61	39	0
Eden	b	57	45	0
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Barometers risen about 0·14 on S coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 5.

Western Australia: Albany, cloudy, light N.E. wind, smooth sea; Perth, fine, fresh N.N.E. wind, very smooth sea. South Australia: Cloudy round S. coast, sea smooth, wind light from S., barometers rising; Streaky Bay, S., 8, gloomy; Port Augusta, S., 8, fine; Daly Waters, S.E., 23, fine; Port Darwin, S.E., 8, fine; Powell's and Tennant's Creek, fine, light S.E. winds. Rain: Eucla, 0·020. Victoria: Cloudy, passing showers at Portland; smooth sea, fresh southerly winds and rising barometers round coast; sea rather rough at Wilson's Promontory. Rain: Melbourne, 0·020; Otway, 0·060; Portland, 0·020; Wilson's Promontory, 0·050. New South Wales: Cloudy inland to S.W., and on coast at Sydney, Wollongong, and Eden; sea smooth, barometers rising, winds fresh from S.E.; no rain; fine and frosty inland to N.W. and W. Queensland: Overcast at Brisbane, with strong S. wind and rising barometer; fine with light S.E. winds at Rockhampton and Cooktown. 3 p.m. Observations.—Victoria, barometers steady; Melbourne, S.W., 8, cloudy, temperature 52°; Cape Otway, W.S.W., 23, misty, showery, rough sea, temperature 52°; Portland, S.W., 28, showery, rough sea, temperature 53°; Wilson's Promontory, W.S.W., 23, cloudy, moderate sea, temperature 52°. New South Wales: Wentworth, S., light, fine, temperature 57°; Albury, S., cloudy, temperature 58°; Forbes, calm, cloudy, temperature 53°; Moruya, S.E., 28, fine, smooth sea, temperature 56°; Sydney, S., 14, cloudy, smooth sea, temperature 56°; Port Macquarie S.S.E., 14, fine, smooth sea, temperature 61°; Braidwood, S., 14, fine, temperature 60°; Goulburn, calm, fine, temperature 57°; Eden, S.W., 28, showery, smooth sea, temperature 56°; Cape George, S., 42, fine, smooth sea, temperature 55°; Newcastle, S., cloudy, smooth sea; Clarence River, S., 42, fine, moderate sea, temperature 65°; Menindie, S.W., fine, temperature 57°. New Zealand: Moderate N.W. winds in North; heavy gale from N.W. on West Coast about Hokitika. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level; at Hay 3 feet above summer level; at Balranald, 3 feet 9 inches above summer level. Murray: At Albury, 2 feet 2 inches above summer level; at Euston, 10 feet 5 inches above summer level. Darling: At Wentworth, 9 feet 1 inch above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

Stations	W	Temp.	Rain
Casino..	o	73	40	0
Tenterfield	b	61	33	0
Moree....	b	70	42	0
Grafton...	b	69	49	0
Gl'n Inn's	n	65	27	0
[illegible]	o	59	30	0
Bourke..	[illegible]	[illegible]	[illegible]	0
Narrandera	b	[illegible]	40	0
Armidale	o	51	25	0
Bendiem'r	–	..	..	..
Gunned'h	b	75	33	0
Coonam'le	c	65	39	0
Tamworth	b	68	26	0
Coonab'rn	b	62	27	0
P. Macqrie	–	..	..	0
Wilcannia	g	61	43	0
Murr'undi	b	56	34	0
Cassilis..	n	61	27	0
Mus'br'ok	b	65	29	0
Dubbo...	n	56	37	0
Menindie	b	60	41	0
Mudgee..	n	72	30	0
Maitland.	o	60	38	0
Hill End.	b	49	33	0
Newcastle	b	67	39	0
Orange..	b	49	36	0
Bathurst	c	54	30	0
6 59		Ea		
Forb's	g	60	38	0
Mt Vict'ria	n	49	33	0
Condob'lin	b	50	40	0
Picton..	g	68	54	0
Carcoar..	n	47	30	0
Wentw'th	b	61	40	0
Young...	f	55	39	0
Wollgo'ng	c	69	45	0
Hay....	b	58	37	0
Moss Vale	n	52	34	0
Euston...	b	80	29	0
Goulburn	g	55	28	0
Wagga...	g	55	35	0 03
Cape Geo.	b	63	47	0
Queanb'n	n	56	28	0
Deniliq'in	g	58	36	0
Moruya..	n	62	37	0
Kiandra..	c	50	10	0

Alb'ry	b	56	32	0 01
B'd'lla	n	67	29	0
Cooma	c	63	31	0
Eden	g	62	47	0
Gabo	–	..	..	..

WEATHER MAP.

COMPIL[illegible] with Notes to 8 P.M.

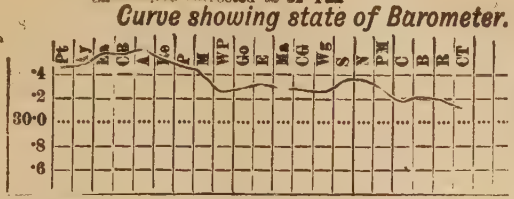
[illegible] Rockht'n
B, Brisbane
C, Clunce R
PM, Pt. Mac
N, Newc'tle
S Sydney

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Ge, Gabo
WP, Wilsons Pr'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

average Annual Rainfa[illegible] 22 years 51·461
A[illegible] for 23 years from Ja[illegible] 1st to July 31 36·193
To[illegible] rainfall from Jan. 1st to August 5 24·903.
Ba[illegible]ers corrected to 32° Fah

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30-39 R 55

CLOUDY ON S COAST
SYDNEY c 62 45 Rain 0·09

30 62 R 43

0 30·35 R 38

14 30 51 R 43

Barometers risen about 0·25 on S E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 6.

Western Australia: Barometers 30·40; weather fine. South Australia: Barometers very high; Adelaide, 30·68; weather generally fine. Victoria: No telegrams for 9 a.m. New South Wales: Weather very fine and clear throughout; smooth sea and light S.W. winds on coast; barometers very high, and still rising; clear and frosty inland in morning. Queensland: Fine weather at Brisbane and Rockhampton, with light S.W. and E.S.E. winds; overcast at Cape Moreton, with strong S.E. wind. 3 p.m. Observations.—Victoria: Barometers, 30·40; Cape Otway, N.W., 28, showery, rough sea, temperature 52°; Portland, W., 34, passing showers, smooth sea, temperature 55°; Wilson's Promontory, W., 40, squally, rough sea, temperature 52°. New South Wales: Albury, calm, fine, temperature 58°; Forbes, calm, fine, temperature 39°; Moruya, N.E., 20, temperature 59°; Sydney, S.E., 10, very fine, temperature 57°; Port Macquarie, S.S.E., 20, fine, temperature 61°; Deniliquin, S., fine, temperature 57°; Goulburn, calm, fine, temperature 58°; Eden, S.W., 20, fine, temperature 62°; Newcastle, S., fine; Clarence River, S., 40, blowing hard, temperature 64°. New Zealand: Heavy S.W. gale on south and south-east coasts. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level; at Hay 3 feet above summer level; at Balranald, 3 feet 9 inches above summer level. Murray: At Albury, 2 feet above summer level; at Euston, 10 feet 4 inches above summer level. Darling: At Wentworth, 9 feet above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED [illegible] for [illegible] with Notes to 3 P.M.

Sydney Observatory.

[illegible] 16th, 6m [illegible]

[illegible] for 22 years [illegible]

[illegible] from Jan. 1st to [illegible] 193

[illegible] Jan. 1st to [illegible] 903

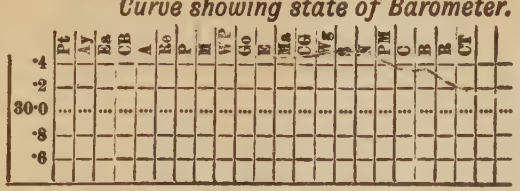
[illegible] reduced to 32° Fah.

	Wt			R'in
Cassilis..	o	74	36	0
Tenterfield	b	62	34	0
[illegible]	b	71	41	0
[illegible]on..	b	75	46	0
[illegible]'s	b	68	34	0
[illegible]rch...	b	62	30	0
Bourke ..	b	67	44	0
Narrabri	b	66	42	0
Armidale	g	52	27	0
Bendem'r	–	..	..	..
Canned'h	b	76	44	0
Coonam'le	b	64	37	0
Tamworth	b	70	30	0
Coonab'rn	b	61	26	0
P. Macqrie	b	65	50	0 58
Wilcannia	b	60	48	0
Murr'undi	o	57	59	0
Cassilis.	b	61	33	0
Mus'br'ok	b	63	34	0
Dubbo...	b	57	39	0
Menindie	b	58	39	0
Mudgee..	b	72	26	0
Maitland.	b	58	41	0
Hill End.	o	48	37	0
Newcastle	b	61	49	0
Orange..	n	50	31	0
Bathurst	n	58	33	0
		Ea		
Forbes	b	57	28	0
Mt Vict'ria	n	48	30	0 02
Condob'lin	b	47	38	0
Picton..	n	60	29	0
Carcoar..	n	59	30	0
Wentw'th	b	59	34	0
Young...	b	54	34	0
Woilgo'ng	b	72	39	0
Hay...	b	60	30	0
Moss Vale	n	59	30	0
Euston...	b	65	26	0
Goulburn	b	59	24	0
Wagga...	b	55	31	0
Cape Geo.	b	56	40	0
Queanb'n	n	62	29	0
Deniliq'in	b	59	34	0
Moruya..	–	..	..	.
Kiandra..	o	46	2	0

Alb'ry	b	62	30	0
B'd'lla	–	..	..	..
Cooma	n	50	29	0
Eden	b	57	44	0 21
Gabo	–	..	..	.

As

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Storm, wind S. Raining wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Prom
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clarence R
PM, Pt. Mac
N, Newc'tle
Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0·20 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL.
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 8.

Western and South Australia: No telegrams. Victoria: Weather very cloudy and threatening, with strong westerly winds; falling barometers and rough sea; rain Cape Otway, 0·310; Portland, 0·440. New South Wales: Fine and clear, smooth sea on coast, with light westerly winds and rapidly falling barometers; cloudy weather near Victorian border. Queensland: Cooktown, showers, with strong S.E. wind, rain 0·580; Rockhampton and Brisbane, fine, with light S.E. and W. winds. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S.W., 10, cloudy, temperature 53°; Portland, S.W., 34, cloudy, moderate sea, temperature 51°; Cape Otway, W., 28, misty, high sea, temperature 50°; Wilson's Promontory, W., 48, showery squalls from W.S.W., high sea, temperature 48°. New South Wales: Wentworth, S.W., dull, temperature 54°, Deniliquin, S.W., dull, temperature 58°; Albury, S.W., moderate, cloudy, temperature 57°; Goulburn, W., strong, fine, temperature 60°; Forbes, calm, fine, temperature 53°; Eden, S.W., 42, fine, light sea, temperature 58°; Moruya, E.N.E., 28, fine, smooth sea, temperature 62°; Cape George, W. 56, fine, smooth sea, temperature 62°; Sydney, E., 14, fine, smooth sea, temperature 62°; Newcastle, W., fine, smooth sea; Port Macquarie, W., fine, smooth sea, temperature 62°; Clarence River, N., 14, fine, smooth sea, temperature 77°; Menindie, S.W., dull, temperature 56°. New Zealand: Heavy N.W., gales on South Island; barometer down to 28 6 in south. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level; at Hay 3 feet above summer level; at Balranald, 3 feet 10 inches above summer level. Murray: At Albury, 1 foot 10 inches above summer level; at Euston, 10 feet above summer level. Darling: At Wentworth, 8 feet 11 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 8 1881, with Notes to 8 P.M.

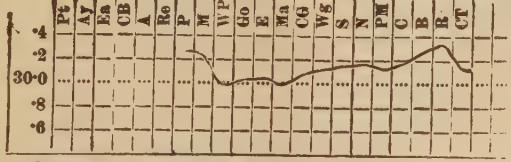
Sydney Observatory.

Lat. 33° 51′ 41″ S. ; Long. 10h. 4m. 50·81s. E.

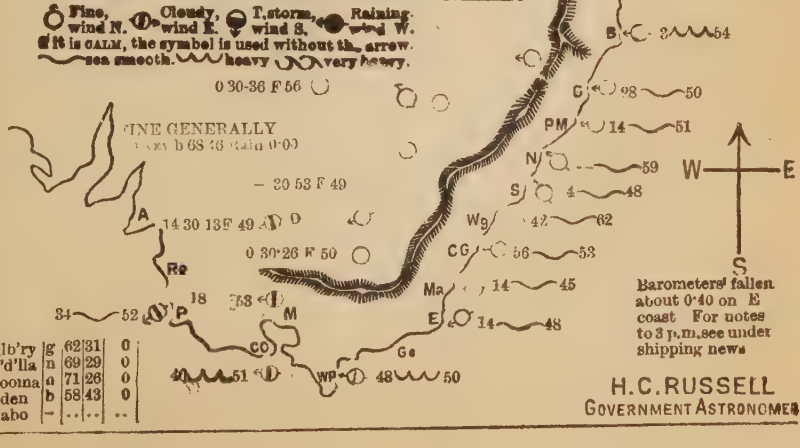
Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to July 31 . . . 36·193
Total Rainfall from Jan. 1st to August 8 . 24·903
Barometers corrected to 32° Fah and Mean Sea Level

Cooma	b	72	37	0
Tenterfield	b	63	28	0
Moree	b	88	39	0
Grafton	b	77	30	0
Gl'n Inn's	b	66	24	0
Inverell	b	61	28	0
Bourke	b	69	43	0
Narrabri	b	69	36	0
Armidale	n	57	20	0
Bendem'r	–	..	..	..
Gunned'h	–	..	..	..
Coonam'le	–	..	..	..
Tamworth	b	70	27	0
Coonab'rn	–	..	..	..
P.Macqrie	b	64	42	0
Wilcannia	b	61	40	0
Murr'undi	b	60	53	0
Cassilis	b	65	35	0
Mus'br'ok	b	70	39	0
Dubbo	b	56	37	0
Menindie	b	65	44	0
Mudgee	b	74	28	0
Maitland	–	..	..	..
Hill End	o	49	35	0
Newcastle	b	71	52	0
Orange	f	52	31	0
Bathurst	f	63	25	0
		Ea		
Forb's	b	6	37	0
Mt Vict'ria	b	57	[illegible]	[illegible]
Condob'lin	o	56	39	0
Picton	b	70	35	0
Carcoar	g	59	44	0
Wentw'th	g	63	52	0
Young	g	59	45	0
Wollgo'ng	b	78	53	0
Hay	b	62	32	0
Moss Vale	b	60	39	0
Euston	g	80	30	0
Goulburn	b	62	38	0
Wagga	g	56	33	0
Cape Geo.	b	62	45	0
Queanb'n	b	60	30	0
Deniliq'in	g	61	35	0
Moruya	b	62	43	0
Kiandra	g	39	14	0
Alb'ry	g	62	31	0
B'd'lla	n	69	29	0
Cooma	a	71	26	0
Eden	b	58	43	0
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Ws, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Ge, Gabo
WP, Wilsons Pr'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E

METEOROLOGICAL REPORTS.—August 9.

Western Australia: Cloudy and gloomy, with light N.W. and S.S.W. winds, smooth sea, no rain. South Australia: Cloudy round S. coast, barometers fallen slightly, smooth sea, winds light from S.E., N., and W.; Streaky Bay, N., 13, dull; Port Augusta, W., 18, cloudy; Daly Water, S.E., 8, fine; no rain reported; weather fine inland. Victoria: Cloudy and showery round coast, winds strong from S.W., rough sea, barometers falling slowly; rain, Otway 0·060., Portland 0·050, Wilson's Promontory 0·130. New South Wales: Fine on coast and inland to W. and N.W., cloudy S.W. in Riverina districts, smooth sea, steady barometers, and light S.W. winds on coast. Queensland: Weather fine, with light S.E., N.W., and S.W. winds, moderate sea, barometers rising. 3 p.m. Observations.—Victoria, barometers steady; Melbourne, W.S.W., 13, fine, temperature 52°; Cape Otway, W.N.W., 34, misty, rough sea, temperature 50°; Portland, W.N.W., 13, cloudy, moderate sea, temperature 51°; Wilson's Promontory, W., 40, cloudy, squally, rough sea, temperature 49°. New South Wales: Wentworth, calm, dull, temperature 56°; Albury, W., moderate, cloudy, temperature 57°; Forbes, calm, cloudy, temperature 53°; Moruya, N.E., 28, fine, swell setting in from E., temperature 58°; Sydney, E., 14, fine, smooth sea, temperature 59°; Port Macquarie, S.S.E., 42, fine, sea rising, temperature 61°; Menindie, calm, dull, temperature 58°; Deniliquin, S.W., 14, dull, temperature 60°; Goulburn, W., fine, temperature 59°; Eden, S.W., 14, fine, light sea, temperature 58°; Cape George, S.E., 28, fine, moderate sea, temperature 58°; Newcastle, S.E., fine, heavy sea; Clarence River, S.E., 28, fine, smooth sea, temperature 69. New Zealand: Heavy N.W. gale Auckland and south; at Wellington, weather gusty but fine; high sea on the west coast; barometer 28·8 in south. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level; at Hay 3 feet above summer level; at Balranald, 3 feet 10 inches above summer level. Murray: At Albury, 2 feet 4 inches above summer level; at Euston, 9 feet 9 inches above summer level. Darling: At Wentworth, 8 feet 10 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 9 1889, with NOTES to 3 P.M.

Sydney Observatory.

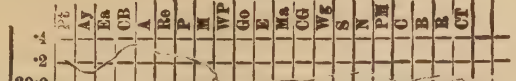
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 9 ... 24·903
Barometers corrected to 32° Fah

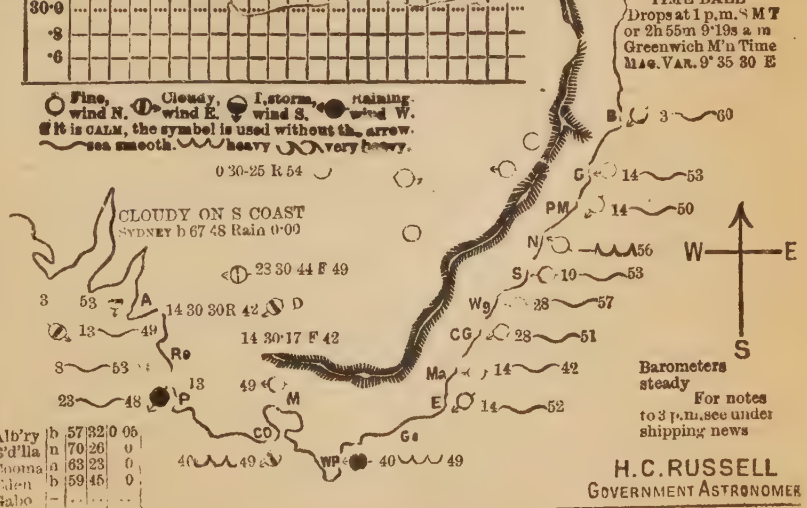
Stations				
Casino..	o	81	36	0
Tenterfild	b	66	27	0
Moree...	b	77	68	0
Grafton..	b	82	31	0
Gl'n Inn's	b	68	22	0
Inverel..	b	62	28	0
Bourke..	b	74	44	0
Narrabri	o	68	41	0
Armidale	b	59	28	0
Bendem'r	–	..	..	..
Ganned'h	b	77	31	0
Coonam'le	b	68	36	0
Tamworth	b	71	26	0
Coonab'rn	–	..	..	..
P.Macqrie	b	73	40	0
Wilcannia	c	58	46	0
Murr'undi	o	61	35	0
Cassilis..	g	64	31	0
Mus'br'ok	b	71	39	0
Dubbo...	c	58	38	0
Menindie	g	59	49	0
Mudgee..	g	69	38	0
Maitland.	o	67	48	0
Hill End.	g	54	38	0
Newcastle	b	74	46	0
Orange..	g	48	36	0
Bathurst	g	58	31	0
23 62		Ea		
Forb's	g	60	36	0
Mt Vict'ria	g	52	39	0
Condob'ln	g	50	42	0
Picton..	b	66	42	0
Carcoar..	r	49	49	0 07
Wentw'th	c	60	44	0
Young...	c	55	46	0
Wollgo'ng	b	72	51	0
Hay....	g	58	40	0
Moss Vale	b	55	40	0
Euston...	b	63	34	0
Goulburn	b	56	39	0
Wagga...	b	54	41	0 02
Cape Geo.	b	68	45	0
Queanb'n	b	70	35	0
Deniliq in	g	57	38	0
Moruya..	f	64	38	0
Kiandra..	n	42	15	0

Alb'ry	b	57	32	0 05
B'd'lla	n	70	26	0
Cooma	n	63	23	0
Eden	b	59	45	0
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Lt. storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.



R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Ge, Gabo
WP, Wilsons P'w
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers steady

For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 10.

Western Australia: Perth, fine, light, S.S.W. wind, rain 0·050; Albany, gloomy, light, S.W. wind, rain 0.110. South Australia: Fine generally, cloudy on coast near Victoria; Sea smooth, wind light from N.W., barometers falling; rain, Robe 0·020, Borda 0·020; Port Darwin, fine, S., 8; Daly Waters, calm, fine; Tennant's Creek, S., 18, fine; Powell's Creek, S.E., 8, fine. Victoria: Cloudy all round coast with rough sea, wind fresh from N., barometers falling; raining at Wilson's Promontory; rain, Otway 0·070, Portland 0·040, and Wilson's Promontory 0·180. New South Wales: Fine, clear weather throughout, sea smooth, wind light from W., barometers steady; weather very fine and clear inland, and frosty in morning; no rain reported from any of stations. Queensland: Fine, clear weather, with light variable winds, smooth sea, and rising barometers. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, N., 18, cloudy, temperature 53°; Cape Otway, N.W., 18, cloudy, unsettled, moderate sea, temperature 54°; Portland, N.N.W., 28, cloudy, smooth sea, temperature 57°; Wilson's Promontory, N.W., 18, gloomy, squally, moderate sea, temperature 23°. New South Wales; Wentworth, N., cloudy, temperature 59°; Albury, S.W., light, cloudy, temperature 57°; Forbes, calm, fine, temperature 50°; Sydney, N.W., 8, fine, smooth sea, temperature 59°; Port Macquarie, S., 28, fine, moderate sea, temperature 61°; Menindie, S.W., fine, temperature 59°; Deniliquin, N.W., 14, fine, temperature 59°; Goulburn, W., fine, temperature 58°; Eden, N.E., 14, fine, light sea, temperature 55°; Cape George, N., 28, fine, moderating sea, temperature 57°; Newcastle, W., fine, moderate sea; Clarence River, S., 14, dull, moderate sea, temperature 67°. State of Rivers.—Murrumbidgee: At Hay 3 feet above summer level; at Balranald, 3 feet 10 inches above summer level. Murray: At Albury, 2 feet 4 inches above summer level; at Euston, 9 feet 8 inches above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

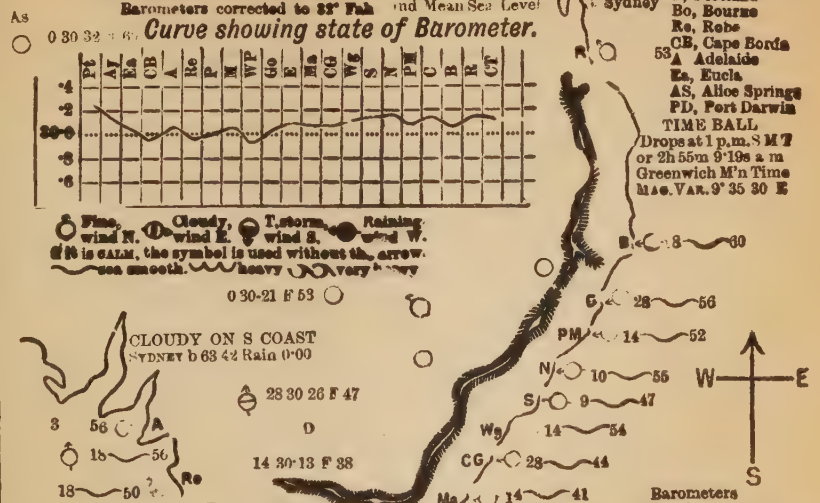
COMPILED from TELEGRAMS for 9 A.M., AUGUST 10 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10h. 4m. 50·4s. *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 10 . 24·903
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W'th	M'x	Min	R'fall
Casino..	o	82	39	0
Tenterfield	b	67	33	0
Moree....	g	74	42	0
Grafton..	b	71	29	0
Gl'n Inn's	b	65	24	0
Inverell..	g	62	28	0
Bourke ..	b	73	41	0
Narrabri	b	67	40	0
Armidale	b	59	27	0
Bendem'r	–	..	..	..
Gunned'h	b	74	31	0
Coonam'le	b	65	35	0
Tamworth	b	68	20	0
Coonab'rn	n	62	62	0
P.Macqrie	b	64	44	0
Wilcannia	o	65	46	0
Murr'undi	b	58	33	0
Casulis..	n	55	27	0
Mus'br'ok	b	65	34	0
Dubbo...	b	56	34	0
Menindie	b	60	37	0
Mudgee..	n	67	29	0
Maitland.	o	64	40	0
Hill End.	b	52	36	0
Newcastle	b	68	42	0
Orange..	n	47	28	0
Bathurst	n	54	23	0
S 61		Ea		
Forbes	b	56	27	0
McVict'ria	o	49	32	0
Condob'lin	b	46	37	0
Picton..	–	..	..	..
Carcoar..	n	49	30	0
Wentw'th	g	65	40	0
Young...	b	56	31	0
Wollgo'ng	b	65	43	0
Hay....	b	59	32	0
Moss Vale	b	66	43	0
Euston...	–	..	..	..
Goulburn	b	55	28	0
Wagga...	–	..	..	..
Cape Geo.	n	62	39	0
Queanb'n	n	56	29	0
Deniliq'in	–	..	..	..
Moruya..	b	60	36	0
Kiandra..	b	40	10	0
Alb'ry	b	58	28	0
B'd'lla	n	64	24	0
Cooma	o	58	15	0
Eden	b	55	38	0
Gabo	–	..	..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 11.

Western Australia: Perth, gloomy, light N.W. wind, smooth sea; Albany, fine and clear, light S.E. wind, smooth sea. South Australia: Weather cloudy, round coast, with light variable winds, sea smooth, barrometers falling in E. and rising in W. of colony; Streaky Bay, squally from S.W.; Port Augusta, dull, N.W., 8; Daly Waters, calm and fine; Port Darwin, S.E., 8, fine. Rain—Adelaide, 0·150; Borda, 0·108; Robe, 0·130. Victoria: Cloudy all round coast, light N. and N.W. winds, sea moderate, barometer falling. Rain—0·020 at Portland, squally at Wilson's Promontory. New South Wales: Cloudy on coast, with light W. and N.W. winds, sea smooth, barometers falling, cloudy inland to S.W. of Sydney on W. as far as mountains, fine up N.W., heavy frosts at Kiandra; no rain. Queensland: Rockhampton, cloudy, light S.W. wind; Cooktown, fine, light S.E. wind. 3 p.m. Observations.—Victoria: Melbourne, N.N.E., 18, cloudy, temperature 53°; Portland, W., 40, showery, smooth sea, temperature 52°; Cape Otway, N.W., 56, showery, moderate sea, temperature 56°; Wilson's Promontory, N.W., 18, showery, slight sea, temperature 48°. New South Wales: Wentworth, N.W., fine, temperature 57°; Denilquin, S.W. light, showery, temperature 58°; Albury, calm, cloudy, temperature 60°; Goulburn, W., fine, temperature 42°; Eden, N.E., 14, fine, sea smooth, temperature 56°; Cape George, N.W., 28, sea smooth, temperature 59°; Sydney, N., 14, cloudy, sea smooth, temperature 60°; Newcastle, N.W., dull, sea smooth; Port Macquarie, W., 14, fine, sea smooth, temperature 61°; Clarence River, E.N.E., 14, fine, sea moderate, temperature 66°. Menindie, S.W., fine, temperature 60°; New Zealand: Generally fine, but rough sea still on the west coast. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 3 feet 9inches above summer level. Murray: At Albury, 2 feet 4 inches above summer level; at Euston, 9 feet 7 inches above summer level. Darling: At Wentworth, 8 feet 3 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 11 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 11 . 24·912

Barometers corrected to 32° Fah ... Mean Sea Level

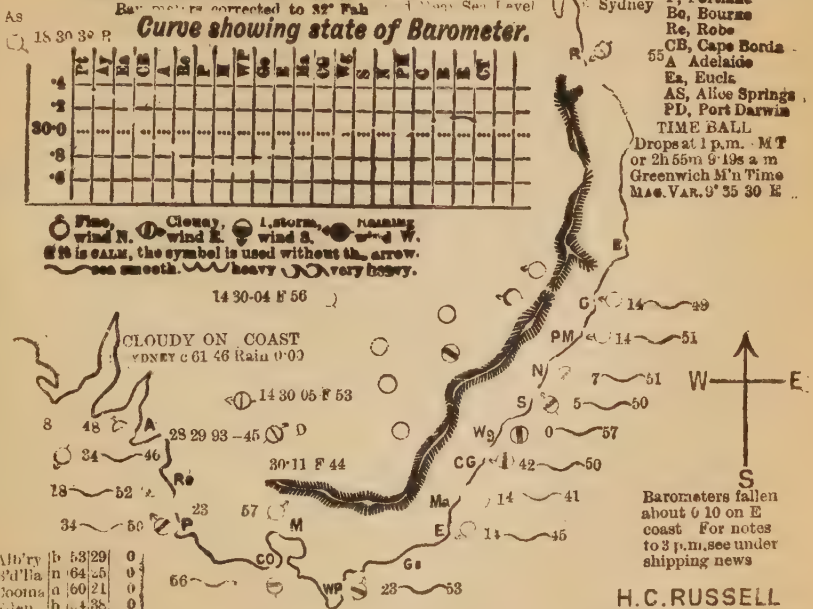
Stations	W'T	M'X	M.I	R'IN
Casino..	o	79	35	0
Tenterfild	b	65	21	0
Moree....	b	78	42	0
Grafton..	b	77	30	0
Gl'n Inn's	n	63	23	0
Inverell..	b	60	27	0
Bourke ..	o	68	49	0
Narrabri	b	68	37	0
Armidale	b	57	25	0
Bendem'r	–	..	..	..
Gunned'h	c	74	29	0
Coonam'le	b	67	37	0
Tamworth	b	68	27	0
Coonab'rn	b	..	..	..
P.Macqrie	o	63	44	0
Wilcannia	b	65	42	0
Murr'undi	g	56	37	0
Cassilis..	–	..	..	..
Mus'br'ok	g	67	39	0
Dubbo...	c	56	35	0
Menindie	b	65	40	0
Mudgee..	–	..	..	..
Maitland.	g	62	44	0
Hill End.	–	..	..	..
Newcastle	g	69	43	0
Orange..	n	46	30	0
Bathurst	–	..	..	..
Corb's	b	59	29	0
McVict'ria	g	50	37	0
Condob'lin	–	..	..	0
Picton..	–	..	..	..
Tarcoar..	–	..	..	..
Wentw'th	g	68	46	0
Young...	b	56	37	0
Wollgo'ng	b	66	43	0
Hay...	–	..	..	..
Moss Vale	g	52	35	0
Euston...	c	62	40	0
Moulburn	b	56	31	0
Wagga...	b	53	.	0
Cape Geo.	c	60	46	0
Queanb'n	b	60	32	0
Deniliq'in	g	56	38	0
Moruya..	b	59	36	0
Kiandra..	n	45	3	0

Alb'ry	b	53	29	0
Sy'd'ham	n	64	25	0
Cooma	a	60	21	0
Eden	b	4	38	0
Gabo	–	..	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Bordia
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a m
Greenwich Mi'n Time
MAG. VAR. 9° 35 30 E



H.C.RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 12.

Western Australia: Fine, with light winds and calms, smooth sea. South Australia: Fine and clear inland, cloudy round S. coast, smooth sea, winds light from W., barometers falling; Streaky Bay, calm, cloudy; Port Augusta, calm and fine; Daly Waters, calm, fine; Port Darwin, S.E., 8, fine; no rain. Victoria: Cloudy, showery, and squally all round coast, rough sea, barometers rising, wind fresh W.; rain, Melbourne 0·220; Portland 0·480, Wilson's Promontory 0.430, and Cape Otway 0·110. New South Wales: Fine and clear all down coast, with light westerly winds, falling barometers, and smooth sea, cloudy inland to S.W., raining at Albury, fine up N. and N.W.; for rainfall, &c., see map. Queensland: Fine clear weather, light variable winds. 3 p.m. Observations.—Victoria: Melbourne, W., 18, cloudy, temperature 55°; Cape Otway, W., 18, showery, rather rough sea, temperature 55°; Portland, S.W., 34, cloudy, smooth sea, temperature 56°; Wilson's Promontory, W., cloudy, rather rough sea, temperature 52° New South Wales: Albury, S.W., moderate, showery, temperature 57°; Forbes, calm, cloudy, temperature 52°; Moruya, S.W., 56, cloudy, moderate sea, temperature 65°; Sydney, W., 21, fine, smooth sea, temperature 61°; Port Macquarie, W.S.W., 56, fine, smooth sea, temperate 62°; Deniliquin, S.W., 14, like change, temperature 61°; Goulburn, W., fine, temperature 58°; Eden, W.S.W., 42, cloudy, smooth sea, temperature 58°; Cape George, S., 28, fine, smooth sea, temperature 59°; Newcastle, W.N.W., fine, smooth sea; Wilcannia, S.W., dull, temperature 58°; Menindie, S.W., fine, temperature 58°. New Zealand: Fine generally, with light westerly winds. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 2 feet 9 inches above summer level. Murray: At Albury, 2 feet 4 inches above summer level; at Euston, 9 feet 6 inches above summer level. Darling: At Wentworth, 8 feet 7 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 12 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

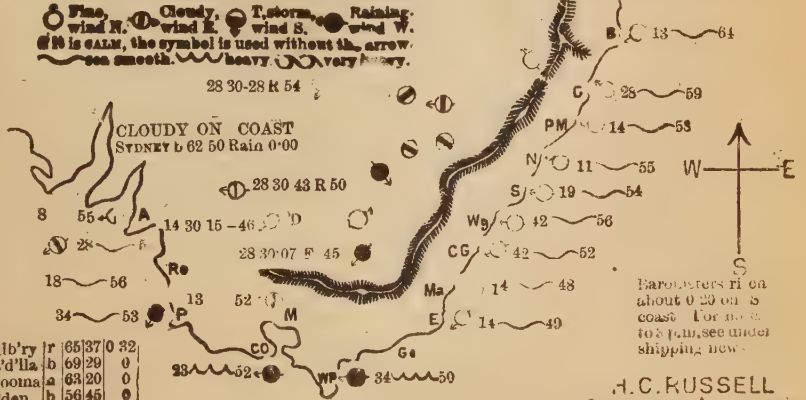
Average Annual Rainfall for 22 years	....	51·461
Average for 23 years from Jan. 1st to	July 31 ...	36·193
Total Rainfall from Jan. 1st to	August 12 .	24·912

Barometers corrected to 32° Fah and from Sea Level

Stations.	W'th	M'x	Ma	r'in
Casino..	o	84	47	0
Tenterfild,	b	67	38	0
Moree....	b	80	51	0
Grafton..	b	81	38	0
Gl'n Inn's	b	67	37	0
Inverell..	b	64	29	0
Bourke ..	b	76	47	0
Narrabri	b	72	50	0
Armidale	c	60	26	0
Bendem'r	–	..	..	..
Ganned'b	–	..	..	..
Coonam'le	b	71	40	0
Tamworth	c	70	34	0
Coonab'rn	g	67	35	0 02
P.Macqrie	b	65	45	0
Wilcannia	b	70	45	0
Murr'undi	g	63	45	0
Cassilis..	g	61	39	0
Mus'br'ok	b	70	41	0 02
Dubbo...	g	61	37	0 09
Menindie	g	62	40	0 05
Mudgee..	g	70	39	0 12
Maitland.	g	65	46	0 05
Hill End.	r	54	35	0 40
Newcastle	b	67	48	0
Orange..	g	50	35	0 35
Bathurst	p	61	31	0 27
8 58		Ea		
Forb's	g	58	33	0 16
Mt Vict'ria	g	54	33	0 01
Condob'ln	c	50	39	0 10
Picton..	b	62	32	0
Carcoar..	r	53	38	0 41
Wentw'th	g	64	48	0
Young...	r	59	45	0 37
Wollgo'ng	b	72	51	0
Hay....	b	63	47	0 02
Moss Vale	b	58	40	0
Euston...	g	81	44	0
Goulburn	b	62	39	0 23
Wagga...	g	62	39	0 10
Cape Geo.	o	66	48	0
Queanb'n	b	71	42	0
Deniliq in	b	55	39	0 07
Moruya..	b	67	39	0
Kiandra..	g	43	15	0
Alb'ry	r	65	37	0 32
B'd'lla	b	69	29	0
Cooma	a	63	20	0
Eden	b	56	45	0
Gabo	–	..	..	..

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 13.

South Australia: Fine weather round coast, smooth sea, light variable winds, and falling barometers on coast; Streaky Bay, N., 8, fine; Port Augusta, calm and fine; Daly Waters, S.E., 8, fine; Port Darwin, S.E., 8, fine. Victoria: Cloudy, showery, and squally round coast, sea moderate, barometers rising, wind fresh from W. and N.W. Rain—Melbourne, 0·010; Portland, 0·080; and Wilson's, 0·090. New South Wales: Fine clear weather throughout colony, smooth sea, light W. winds, and rapidly rising barometers on coast; no rain, very clear, with light westerly winds and calms inland. Queensland: Fine weather, light S.E. winds, smooth sea, and rising barometers. 3 p.m. Observations—Victoria, barometers steady; Portland, W., 34, cloudy, smooth sea, temperature 57°; Cape Otway, N.W., temperature 23, cloudy, rough sea, temperature 58°; Wilson's Promontory, W., 23, squally, misty, temperature 52°. New South Wales: Wentworth, W., fine, temperature 58°; Albury, fine, clear, temperature 57°; Forbes, calm, fine, clear, temperature 59°; Moruya, N.E., 20, fine, sea moderate; Sydney, E.N.E., 10, fine, sea smooth, temperature 60°; Port Macquarie, S.E., fine, sea smooth, temperature 61°; Menindie, S., fine, temperature 58°; Goulburn, W., fine, temperature 61°; Eden, N.E., fine, little easterly sea, temperature 58°; Cape George, calm, fine, little sea, temperature 59°; Newcastle, S.E., fine, sea moderate. New Zealand: Fine generally, overcast, barometer falling for N.W. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 3 feet 6 inches above summer level. Murray: At Albury, 2 feet 2 inches above summer level; at Euston, 10 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., Augt 13th 1881, with NOTES to 3 P.M.

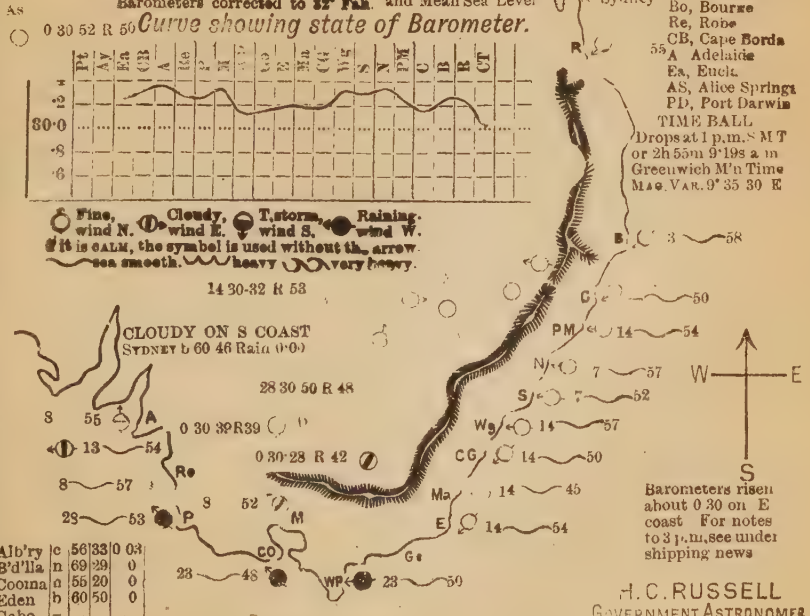
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 13 . 24·912.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.D.	R'in
asino..	o	73	38	0
enterfild	b	60	26	0
oree....	b	72	37	0
rafton..	b	72	37	0
I'n Inn's	a	67	24	0
averell..	b	65	28	0
ourke ..	b	67	43	0
arrabri	b	66	38	0
rmidale	b	60	26	0 05
endem'r	–	..	..	..
unned'h	b	74	28	0
oonam'le	b	63	35	0
amworth	o	70	26	0
oonab'rn	b	79	28	0
.Macqrie	b	67	45	0
Vilcannia	o	63	42	0
furr'undi	b	56	37	0
assilis..	b	55	33	0
Ilus'br'ok	b	64	37	0
ubbo...	b	61	38	0
Ienindie	b	62	39	0
Iudgee..	b	64	38	0
laitland.	b	63	42	0
Iill End.	b	54	38	0
Iewcastle	b	70	45	0
range..	b	45	39	0
athurst	b	49	41	0
		Ea		
orb's	o	58	37	0
tVict'ria	b	45	37	0
ondob'ln	n	52	42	0
icton..	b	63	36	0
Iarcoar..	b	48	40	0 05
Ventw'th	o	65	38	0
Young...	f	56	38	0 02
Vollgo'ng	b	66	49	0
Iay....	b	60	39	0
loss Vale	b	51	38	0
uston...	b	66	31	0
oulburn	b	52	36	0
Vagga...	o	53	35	0
ape Geo.	c	66	42	0
ueanb'n	b	60	33	0
enilig'in	b	60	36	0
Ioruya..	b	67	38	0
iandra..	b	54	17	0

Alb'ry	c	56	33	0 03
B'd'lla	n	69	29	0
Cooma	a	55	20	0
Eden	b	60	50	0
Gabo	–	..	..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 15.

Western Australia: Perth, fine and clear, light E.S.E. wind, sea smooth; Albany, gloomy, light S.E. wind. South Australia: Cloudy and gloomy, smooth sea round coast; barometers steady, but rising to westward; winds light from N.N.E. and variable: Streaky Bay, gloomy, S.W., 18, rain 0·340; Port Augusta, calm, cloudy; Daly Waters, S.E., 8, fine; Port Darwin, W.S.W., 3, fine. Rain: Bordo, 0·370; Robe, 0·050. Victoria: Weather cloudy round coast, with light N.E. winds, steady barometers, and smooth sea; no rain. New South Wales: Fine all down coast, and at majority of inland stations; cloudy in Riverina district, at Wentworth, Young, and Wagga Wagga; sea smooth, barometers rising, wind light from W.; no rain. For weather at each station see list in weather map. Queensland: Weather cloudy, with light S.E. and S.W. winds; sea moderate; no rain. 3 p.m. Observations.—Victoria: Melbourne, E.N.E., 8, cloudy, temperature 56°; Portland, E., 13, gloomy, smooth sea, temperature 59°; Cape Otway, N.E., 8, cloudy, slight sea, temperature 60°; Wilson's Promontery, N.E., 13, gloomy, smooth sea, temperature 56°. New South Wales: Wentworth, N., dull, temperature 64°; Deniliquin, calm, fine, temperature 62°; Albury, calm, cloudy, temperature 58°; Goulburn, calm, fine, temperature 61°; Eden, E.N.E., 14, cloudy, light sea, temperature 60°; Moruya, S.E., 14, fine, smooth sea, temperature 59°; Cape George, N., 14, fine, smooth sea, temperature 63°; Sydney, E.N.E., 14, cloudy, smooth sea, temperature 60°; Newcastle, W., fine, smooth sea; Port Macquarie, N.E., 42, fine, smooth sea, temperature 64°; Clarence River, E.N.E., 14, fine, smooth sea, temperature 69°; Menindie, N.E., strong, dull, temperature 63°. New Zealand: Showery on Sunday, fine generally to-day. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 11 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 3 feet 3 inches above summer level. Murray: At Albury, 2 feet 4 inches above summer level; at Euston, 9 feet 5 inches above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

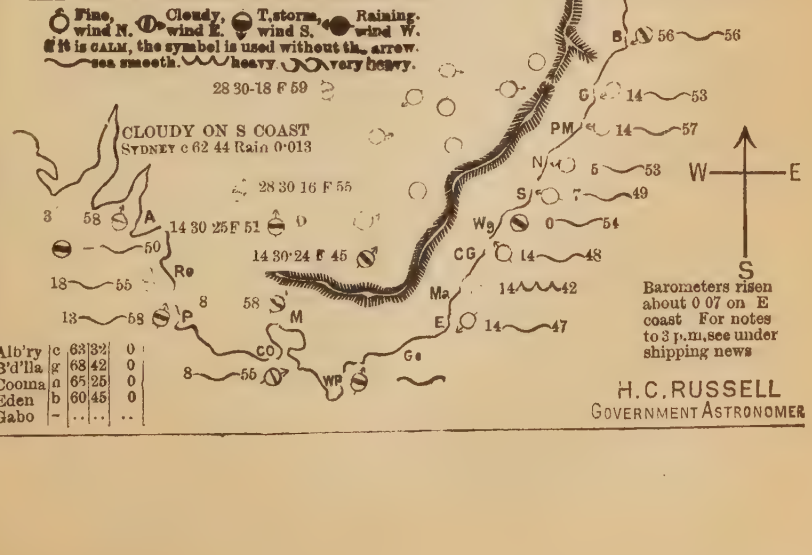
COMPILED from TELEGRAMS for 9 A.M., AUGUST 15 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 .... 36·193
Total Rainfall from Jan. 1st to August 15 . 24 925.
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0 07 on E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

Stations	W't	M'x	M.l	R'in
asino..	o	73	40	0
enterfild	b	67	27	0
oree....	b	77	49	0
rafton..	b	72	69	0
ll'n Inn's	b	73	23	0
nverell..	b	65	30	0
Bourke ..	c	72	50	0
Narrabri	b	72	43	0
rmidale	b	59	25	0
Bendem'r	–	..	..	..
Banned'h	–	..	..	..
Goonam'le	b	74	37	0
Tamworth	o	75	28	0
oonab'rn	n	70	25	0
.Macqrie	b	67	46	0
Vilcannia	c	67	44	0
Murr'undi	b	63	35	0
assilis..	n	73	26	0
lus'br'ok	b	70	31	0
ubbo...	b	62	38	0
Menindie	g	64	37	0
tudgee..	b	75	31	0
aitland.	b	63	39	0
ill End.	b	59	37	0
ewcastle	b	67	44	0
range..	b	50	32	0
athurst	n	65	27	0
18 51		Ea		
Forb's	o	61	39	0
t Vict'ria	b	47	39	0
ndob'ln	n	52	43	0
cton..	b	63	39	0
arcoar..	b	53	34	0
entw'th	g	68	48	0
oung...	g	60	40	0
ollgo'ng	c	71	42	0
ay....	g	69	40	0
ss Vale	b	58	32	0
ston...	b	70	43	0
ulburn	b	66	27	0
agga...	g	59	31	0
pe Geo.	b	64	45	0
eanb'n	b	68	34	0
niliq'in	g	63	35	0
ruya..	b	65	58	0
andra..	b	54	16	0
Alb'ry	c	63	32	0
B'd'lla	g	68	42	0
Cooma	n	65	25	0
Eden	b	60	45	0
Gabo	–	..	..	..

METEOROLOGICAL REPORTS.—August 16.

South Australia : Very heavy gloomy weather all round S. coast, with light easterly winds, falling barometers, and smooth sea ; raining at Robe ; Port Augusta, N., 13, fine, rain 0·410 ; Daly Waters, S.E., 8, fine ; Port Darwin, S.E., 8, fine ; Powell Creek, calm, fine ; Tennant's Creek, S.E., 18, fine. Rain at Adelaide, 0·250 ; Borda, 0·330 ; and Robe, 0·530 ; fine weather in interior. Victoria : Cloudy all round coast and very gloomy, moderate easterly winds, and rising barometers on coast ; sea smooth ; no rain. New South Wales : Fine on coast and on the ranges ; cloudy weather in S.W. ; raining steadily at Euston, and farther N. on the Darling at Bourke. A band of cloudy weather, too, is over the Queensland border, and rain was reported to be falling at 9 a.m. at Clarence Heads ; light westerly winds on coast ; sea smooth ; barometers steady. Rain at Wentworth, 0·390 ; Menindie, 0·110 ; and Bourke, 0·040. Queensland : Cooktown, cloudy, strong S.E. wind ; barometer 30·040 ; rain 0·020. 3 p.m. Observations.—Victoria : Barometers falling : Melbourne, E., 13, cloudy, temperature 70° ; Portland, N.N.W., 34, thunder showers, smooth sea, temperature 70° ; Cape Otway, E., 34, cloudy, smooth sea, temperature 57° ; Wilson's Promontory, E.N.E., 23, cloudy. New South Wales : Wentworth, calm, fine, temperature 60° ; Deniliquin, N.E., 28, fine, temperature 67° ; Albury, N., light, cloudy, temperature 62° ; Goulburn, calm, dull, temperature 64° ; Forbes, calm, cloudy, temperature 61° ; Eden, N.E., 14, fine, light sea, temperature 55° ; Moruya, S.E., 14, fine, smooth sea, temperature 60° ; Cape George, S., 14, fine, smooth sea, temperature 61° ; Sydney, S.E., 14, fine, smooth sea, temperature 65° ; Newcastle, S.E., fine, smooth sea ; Port Macquarie, N.E., 28, fine, smooth sea, temperature 65° ; Clarence River, E., light, gloomy, smooth sea, temperature 67° ; Menindie, S.W., fine, temperature 63. New Zealand : Fine generally. State of Rivers.—Murrumbidgee : At Wagga, 3 feet 5 inches above summer level ; at Hay, 3 feet above summer level ; at Balranald, 3 feet above summer level. Murray : At Albury, 2 feet 4 inches above summer level ; at Euston, 9 feet 5 inches above summer level. Darling : At Wentworth, 8 feet 6 inches above summer level ; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 16 1888, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10h. 4m. 50·81s *E.*

Average Annual Rainfall for 22 years ..... 51·462

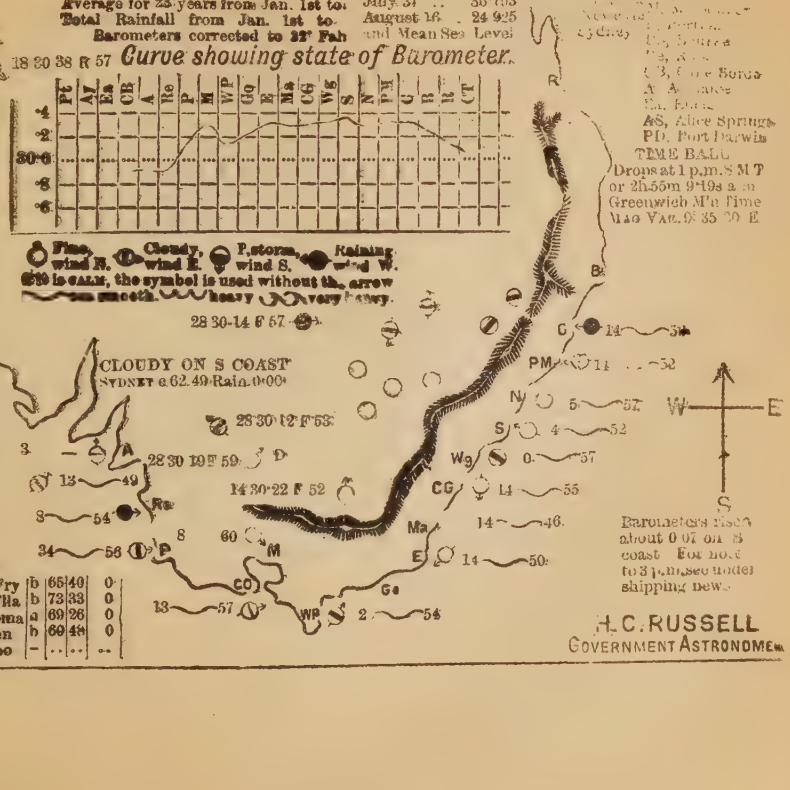
Average for 23 years from Jan. 1st to July 31 .. 36·193

Total Rainfall from Jan. 1st to August 16 . 24·925

Barometers corrected to 32° Fah and Mean Sea Level

Stations.	Wt	M'x	Mn	R'in
Sydno...	c	72	50	0
Waterfdd	c	64	46	0
Newc...	b	77	59	0
Tenterfd...	b	74	49	0
Port Mac'r	g	64	42	0
Grafton	b	63	45	0
Armidale	p	73	56	0·04
Tamworth	c	71	52	0
Inverell	b	60	28	0
Adam's Pk	–	..	..	..
Moncl'ff	–	..	..	..
Bourke	b	74	46	0
Wilcannia	a	77	40	0
Cobar	g	77	30	0
Bacchus	g	68	50	0
Hay	b	69	50	0
Cr'undi	b	64	43	0
Echuca	b	69	58	0
Sale	c	72	39	0
Port'ck	b	62	44	0
Melbne	b	70	48	0 Fl.
Ballarat	b	77	28	0
Sandhst	b	66	45	0
Kiah	b	55	47	0
Castlem'n	b	66	52	0
Bendigo	b	56	32	0
Rutherglen	b	63	32	0
		Ea		
Portland	a	61	39	0
Port'ria	b	59	43	0
Hobart'n	c	52	44	0
Launc'n	b	66	29	0
Hobart	b	58	42	0
Hokit'ka	c	72	48	0·39
Dunedin	b	63	40	0
Lyttelton	c	72	42	0
Christch	c	71	50	0
Wellin'n	b	61	40	0
Nelson	r	76	49	0
Auckland	b	69	36	0
Napier	b	64	37	0
Gisborne	b	66	48	0
Hamilt'n	b	68	38	0
Kaitaia	b	68	49	0
Sydney	b	62	40	0
Brisbane	b	50	19	0

Alb'ry	b	65	40	0
B'd'lla	b	73	33	0
Cooma	a	69	26	0
Eden	b	69	48	0
Gabo	–	..	..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER.

METEOROLOGICAL REPORTS.—August 17.

South Australia: Cloudy weather all round S. coast; raining at Robe; sea smooth, barometers steady, winds northerly. Rain: Adelaide, 0·040; Borda, 0·490; Robe, 0.340; Port Augusta, 0.340; fine inland at Daly Waters and Tennant's Creek, &c., with light S.E. winds. Victoria: Cloudy, and raining all round coast, winds northerly, barometers falling, sea smooth. Rain: Melbourne, 2·140; Otway, 0·200; Portland, 0·410, and showery at Wilson's Promontory, but no rain reported as measured. New South Wales: Cloudy inland to S.W. and W., also on the coast S. of Sydney; winds northerly, but calm throughout, sea smooth, barometers falling. Rain, on weather map. Queensland: Brisbane, cloudy, strong N.E. wind, sea moderate; Rockhampton, fine, light S.E. wind. 3 p.m. Observations.—Victoria: Barometers falling slowly; Melbourne, N.N.W., 13, fine, temperature 64°; Cape Otway, W., 8, gloomy, thunderstorms, smooth sea, temperature 56°; Wilson's Promontory, N.E., 13, gloomy, rough sea, temperature 54°. New South Wales: Wentworth, N., dull, temperature 60°; Albury, N., moderate, cloudy, temperature 64°; Forbes, calm, showery, temperature 58°; Moruya, N.E., 20, gloomy, moderate sea, temperature 61°; Sydney, N.E., 28, cloudy, smooth sea, temperature 64°; Port Macquarie, N.E., 42, fine, smooth sea, temperature 69°; Menindie, N.E., fine, temperature 63°; Deniliquin, calm, fine, temperature 68°; Goulburn, calm, like rain, temperature 62°; Eden, N.E., 14, like rain, light sea, temperature 61°; Cape George, N., 42, like change, smooth sea, temperature 62°; Newcastle, N.E., fine, smooth sea; Clarence River, N.E., 14, fine, smooth sea, temperature 69°. New Zealand, fine generally, but showery at Wellington. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 5 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 3 feet above summer level. Murray: At Albury, 2 feet 4 inches above summer level; at Euston, 9 feet above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from [illegible] for [illegible], AUGUST 1[illegible] 1881, with Notes to 3 p.m.

[illegible] Observatory

[illegible] 51 [illegible] 8 [illegible] long. 10h. 4m. 50·81s. E

[illegible] Mean Barom. for 22 years ..... 51·461

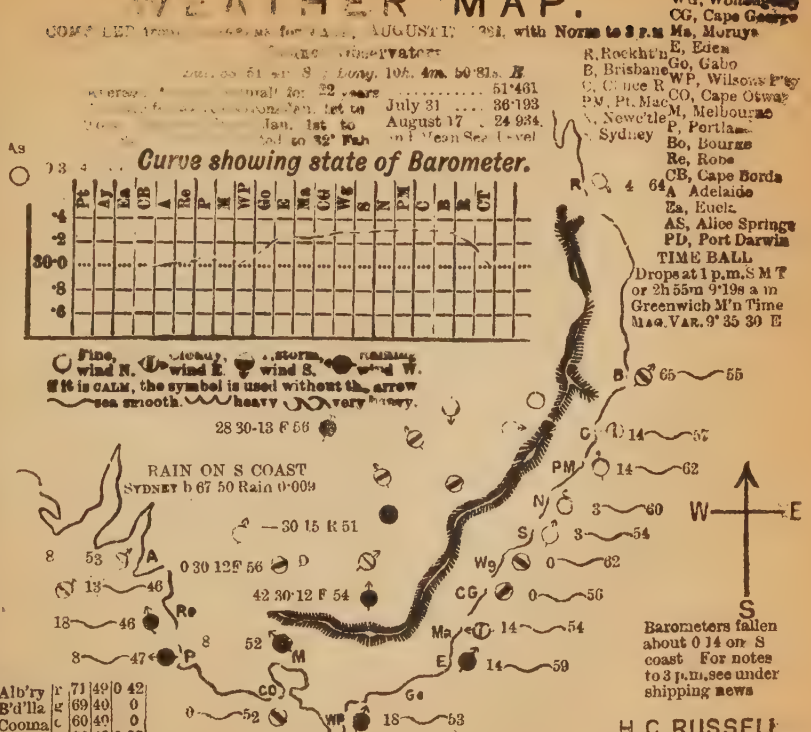
[illegible] Barom. Jan. 1st to July 31 .... 36·193

[illegible] Jan. 1st to August 17 .... 24·934.

[illegible] to 32° Fah. on Mean Sea Level

Stations.	W'r	a'r	g'r	R'in
[illegible]shio..	o	50	48	0
[illegible]nterfld	b	66	41	0
[illegible]orce....	b	77	55	0
[illegible]ncon...	b	73	52	0
[illegible]'n [illegible]n's	b	76	44	0
[illegible]ell...	b	67	40	0
[illegible]ourke ..	r	71	46	0 13
[illegible]arrabri	b	73	50	0
[illegible]randale	b	62	30	0
[illegible]endiem'r	b	66	1	0
[illegible]anned'h	b	83	0	0
[illegible]oonam'le	b	75	51	0
[illegible]amworth	o	74	44	0
[illegible]oonab'rn	g	72	36	0
[illegible]Macqrie	b	69	53	0
[illegible]Vilcannia	t.	70	48	0
[illegible]furr'undi	b	66	47	0
[illegible]assilis..	b	69	34	0
[illegible]tus'br'ok	b	71	41	0
[illegible]ubbo....	c	68	45	0
[illegible]leaindie	b	64	39	0
[illegible]tudgee..	c	78	46	0
[illegible]aitland.	b	67	47	0
[illegible]ill End.	b	69	47	0
[illegible]ewcastle	b	69	51	0
[illegible]range..	g	61	46	0
[illegible]athurst	g	69	43	0
		Ea		
[illegible]Forb's	c	62	39	0
[illegible]Vict'ria	o	60	45	0
[illegible]ondob'ln	b	56	46	0
[illegible]cton..	b	68	41	0
[illegible]arcoar..	b	59	43	0
[illegible]entw'th	b	66	39	0
[illegible]oung...	r	60	55	0 19
[illegible]ollgo'ng	c	72	42	0
[illegible]ay....	b	71	57	0
[illegible]oss Vale	b	63	46	0
[illegible]uston...	b	63	50	0
[illegible]oulburn	g	70	43	0
[illegible]agga...	r	66	52	0 65
[illegible]ape Geo.	g	63	52	0
[illegible]ueanb'n	g	69	44	0
[illegible]eniliq'in	g	68	51	0 65
[illegible]oruya..	g	67	45	0
[illegible]iandra..	r	41	22	1 35

Alb'ry	r	71	49	0 42
B'd'lla	g	69	40	0
Cooma	c	60	40	0
Eden	r	60	49	0 53
Gabo	—	..	..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 18.

South Australia reports cloudy weather, but apparently clearing, smooth sea, light variable winds, and rising barometers on coast; rain, Robe 0·080, Port Augusta 0 060, Powell's Creek 0·060, Daly Waters and Port Darwin, fine, with light S. and S.E. winds, no rain. Victoria: Still cloudy round coast, winds fresh from N., barometers steady, smooth sea, showery at Portland, rain 0.120; ditto at Melbourne 0.290, Cape Otway 0·120, and Wilson's Promontory 0·560. Tasmania: Low Heads, E.S.E., 18, foggy, barometer 29·86. New South Wales: Cloudy and raining generally, rains light, winds from N., and very light at many places, calm, smooth sea, and falling barometers on coast; for rainfall, &c., &c., at each station, see Weather Map. Queensland: Cloudy at Brisbane, strong N.E. winds, rain 0·020; Rockhampton, fine, wind S.E.; Cooktown, gloomy, fresh S.E. breeze. 3 p.m. Observations.—Victoria: Melbourne, N.N.W., 8, showery, temperature 55·; Cape Otway, W.S.W., 28, showery, moderate sea, temperature 53·; Portland, S.S.W., 28, overcast, smooth sea, temperature 54·; Wilson's Promontory, W., 23, squally, dull, moderate sea, temperature 53·. New South Wales: Wentworth, N.W., fine, temperature 56·; Albury, N.W., moderate, cloudy, like rain, temperature 60·; Forbes, calm, fine, temperature 56·; Moruya, W.N.W., 42, dull, moderate sea, temperature 66·; Sydney, N.N.E., 14, cloudy, smooth sea, temperature 61·; Port Macquarie, N.E., 42, dull, smooth sea, temperature 62·; Goulburn, W., dull, temperature 61·; Eden, N., fine, light sea, temperature 62·; Cape George, N.W., 42, fine, smooth sea, temperature 62·; Newcastle, N.N.W., raining, smooth sea; Clarence River, N.E., dull, smooth sea, temperature 66·. New Zealand: Fine generally, barometers 30·10 in north to 30·40 in south. State of rivers.—Murrumbidgee: At Wagga, 3 feet 5 inches above summer level; a Hay 3 feet above summer level; at Balranald, 3 feet above summer level. Murray: At Albury, 3 feet above summer level; at Euston, 9 feet 7 inches above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 18 1881, with NOTES to 3 P.M.

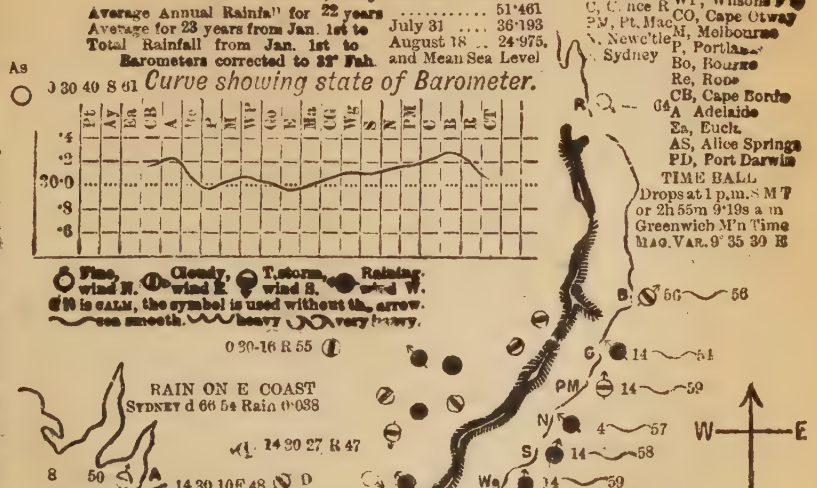
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 .... 36·193
Total Rainfall from Jan. 1st to August 18 .. 24·975.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	Wd	M'x	Ma	R'in
Echuca..	g	74	45	0
Tenterfild	g	65	39	0
Acres....	g	77	59	0
Grafton..	c	75	50	0
H'n Inn's	g	65	40	0
Inverell..	g	61	47	0
Bourke ..	c	67	54	0
Narrabri	r	74	50	0 16
Armidale	g	60	41	0
Bendem'r	g	69	40	0
Dunned'b	r	83	51	0 19
Goonam'le	r	66	54	1 14
Tamworth	d	80	45	0 07
Goonab'rn	r	67	60	0 31
P. Macqrie	g	69	57	0
Wilcannia	b	70	50	0
Murr'undi	r	65	50	0 25
Casallis..	r	62	32	0
Mus'br'ok	d	76	39	0 08
Dubbo...	g	63	52	0 56
Menindie	g	62	40	0
Mudgee..	r	68	51	0 77
Maitland.	r	70	52	0 12
Hill End.	r	59	45	0 70
Newcastle	r	69	56	0 11
Orange..	g	56	47	1 15
Bathurst	g	60	46	0 58
	Ea			
Forb's	b	60	39	0 42
Mt Vict'ria	g	58	45	0 23
Condob'lin	b	55	44	0 08
Picton..	g	64	46	0
Cercoar..	g	50	47	0 72
Ventw'th	g	64	43	0 29
Young...	f	58	42	0 28
Wollgo'ng	p	61	57	0 07
Hay....	g	67	43	0
Moss Vale	g	60	48	0 19
Euston...	g	63	36	0
Moulburn	b	58	43	0 44
Wagga...	g	56	45	0 32
Cape Geo.	c	62	51	0 23
Queanb'n	b	59	46	0 74
Deniliq'in	g	70	44	0
Moruya..	b	65	48	0 15
Scandra..	r	46	23	1 20

Alb'ry	c	63	46	0 40
B'd'lla	b	66	43	0 07
Cooma	b	57	37	0 10
Eden	b	60	50	0 11
Gabo	-	..	..	..



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'w
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

METEOROLOGICAL REPORTS.—August 19.

South Australia: Cloudy round coast, but no rain falling, sea smooth, barometers steady, winds light from N.E. and N.; Streaky Bay, N., 13, fine; Port Augusta, calm, fine; Port Darwin, S.E., 8, fine; Daly Waters, E., 18, fine. Victoria: Cloudy round coast, light N.W. winds, rising barometers, sea smooth; rain—Melbourne 0·040, Otway 0·050, Portland 0·150, Wilson's Promontory 0 070. New South Wales: Fine and clear at majority of stations; for particulars see weather map; weather fine all down coast, with light westerly winds, rising barometers, and smooth sea. Queensland: Fine, with light S.E. and S.W. winds, sea smooth. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, W.S.W., 8, gloomy, temperature 55°; Portland, N.N.W., 23, sultry, smooth sea, temperature 55°; Cape Otway, N.W., 8, gloomy, moderate sea, temperature 55°; Wilson's Promontory, W., 23, cloudy, little sea, temperature 54°. New South Wales: Wentworth, N.N.W., fine, temperature 58°; Deniliquin, calm, fine, temperature 67°; Albury, calm, dull, temperature 62°; Goulburn, calm, fine, temperature 61°; Forbes, calm, cloudy, temperature 62°; Eden, S.W., 14, fine, light sea, temperature 61°; Moruya, E., 14, fine, smooth sea, temperature 61°; Cape George, calm, fine, smooth sea, temperature 59°; Sydney, E.N.E., 14, fine, smooth sea, temperature 62°; Newcastle, E.S.E., fine, smooth sea; Port Macquarie, S.W., 4, fine, smooth sea, temperature 65°; Clarence River, S., 42, cloudy, smooth sea, temperature 68°; Menindie, calm, fine, temperature 60°. New Zealand: Heavy south-east gale blowing at Gisborne and Hokitiki. State of rivers.—Murrumbidgee: At Yagga, 3 feet 5 inches above summer level; at Hay, 3 feet above summer level. Murray: At Albury, 4 feet 3 inches above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 19 1881, with Notes to 3 P.M.

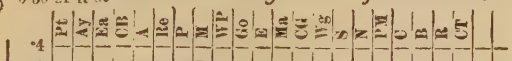
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

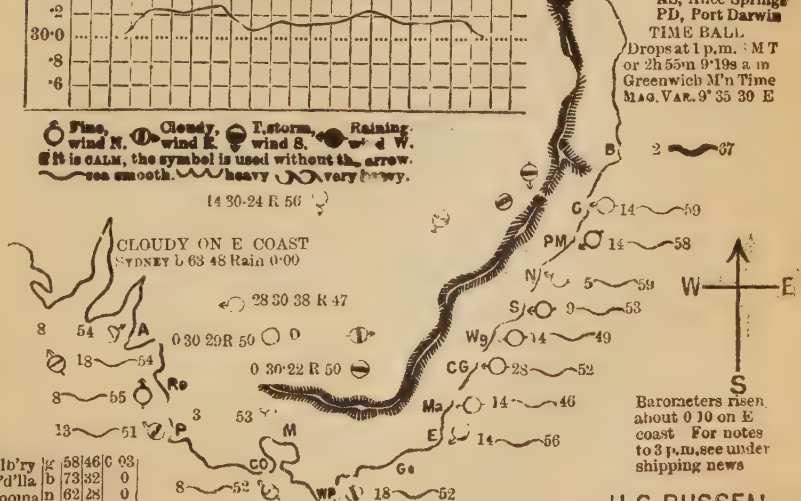
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 .... 36·193
Total Rainfall from Jan. 1st to August 19 . 24·975.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W	B'x	Max	R'in
Casino..	c	76	55	0
Tenterfield	g	64	48	0 04
Moree....	g	60	53	0 38
Brafton.	b	70	53	0 09
Gl'n Ina's	b	60	44	0 17
Inverell..	b	63	53	0 25
Bourke ..	b	63	52	0
Narrabri	g	59	43	0 26
Armidale	b	50	42	0
Bendem'r	b	55	40	0 35
Gunned'h	g	54	41	0 64
Goonam'le	b	60	46	0 02
Tamworth	g	60	44	0 46
Goonab'rn	b	58	32	0 24
P. Macqrie	b	67	51	0
Wilcannia	b	65	43	0
Murr'undi	b	56	43	0 62
Cassilis..	b	56	37	0 42
Mus'br'ok	b	60	38	0 22
Dubbo...	b	64	42	0
Menindie	b	66	38	0
Mudgee..	f	60	38	0 05
Maitland.	b	61	47	0 16
Hill End.	b	57	43	0
Newcastle	b	69	47	0 18
Orange..	b	56	38	0
Bathurst	n	57	32	0
18 60		Ea		
Forb's	b	63	41	0
Mt Vict'ria	b	50	34	0
Condob'ln	b	55	42	0
Acton..	–	..	..	..
Carcoar..	b	44	36	0
Wentw'th	b	62	43	0
Young...	b	59	40	0 01
Wollgo'ng	b	69	49	0
Hay....	b	63	50	0
Moss Vale	b	57	38	0 03
Euston...	b	70	51	0
Goulburn	b	60	38	0 04
Yagga...	g	57	45	0 03
Cape Geo.	b	67	45	0
Queanb'n	b	69	36	0
Deniliq'in	b	57	42	0
Moruya..	b	67	39	0
Candra..	b	42	25	0 60
Alb'ry	g	58	46	0 03
B'd'lla	b	73	32	0
Cooma	n	62	28	0
Eden	t.	65	47	0
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.



Barometers risen about 0·10 on E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 20.

Western Australia: Barometers 30·20, fine and clear. South Australia: Generally cloudy, light winds and calms. Victoria: Cloudy, but not raining; light northerly winds still prevail round the coast; the barometers are falling, and the sea is smooth; Portland, rain 0·010; Wilson's Promontory, 0·010. New South Wales: Weather fine and clear, smooth sea, steady barometers, and light, variable winds and calms on coast; no rain. Queensland: Cooktown, fine, with fresh S.E. wind, no rain; Brisbane, fine, with light S.W. wind, sea moderate, no rain. 3 p.m. Observations.—Victoria: Barometers falling slowly; Portland, N., 13, overcast, smooth sea, temperature 60°; Cape Otway, N., 13, cloudy, smooth sea, temperature 60°; Wilson's Promontory, N.E., 3, cloudy, very smooth sea, temperature 59°. New South Wales: Wentworth, N., dull, like rain, temperature 57°; Deniliquin, N.N.E., cloudy, threatening, temperature 64°; Albury, cloudy, temperature 60°; Goulburn, fine, calm, temperature 61°; Eden, N., sea smooth, temperature 59°; Moruya, N.E., 14, dull, sea moderate; Cape George, N., smooth sea, temperature 71°; Sydney, N.E., 14, fine, clear, temperature 61°; Newcastle, N.E., fine, smooth sea; Port Macquarie, S.S.E., smooth sea, temperature 64°; Menindie, N.E fine, temperature 63°. New Zealand: Heavy N.E. gale at Gisborne, fine and calm at other places. State of rivers.—Murrumbidgee: At Wagga, 5 feet 6 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 3 feet above summer level; at Euston, 9 feet 2 inches above summer level. Darling: At Wentworth, 8 feet 5 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

Stations.	W't	M'x	M.	R'in
asino..	b	76	46	0
enterfld	u	67	40	0
loree....	b	75	45	0
rafton..	b	72	53	0
ll'n Inn's	b	67	36	0
averell..	b	63	38	0
ourke ..	b	72	45	0
arrabri	b	67	41	0
rmidale	b	61	38	0
endem'r	b	62	28	0
anned'h	–	..	..	..
oonamle	b	65	39	0
amworth	–	..	..	.
oonab'rn	b	66	29	0
.Macqrie	b	62	48	0
Vilcannia	b	68	44	0
urr'undi	b	61	39	0
essilis..	b	61	32	0
fus'br'ok	b	67	36	0
ubbo...	b	60	43	0
Ieuindie	b	67	40	0
ludgee..	n	72	41	0
laitland.	b	63	43	0
fill End.	b	57	43	0
ewcastle	b	60	45	0
range.	n	53	37	0
athurst	n	60	32	0
		Ea		
Forb's	b	68	36	0
t Vict'ria	g	55	37	0
ondob'ln	–	..	.	..
cton..	–	..	.	..
arcoar..	b	53	39	0
entw'th	b	68	40	0
oung...	b	60	39	0
ollgo'ng	c	68	47	0
ay....	b	71	45	0
oss Vale	b	57	40	0
ston...	b	7-	34	0
oulburn	b	62	33	0
agga...	g	60	42	0
ape Geo.	b	64	45	0
leanb'n	b	75	41	0
eniliq'in	b	63	40	0
oruya..	b	64	44	0
andra..	c	41	24	0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 20, 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S*, *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 .... 36·193
Total Rainfall from Jan. 1st to August 20 .. 24·975.
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30-15 F 59

CLOUDY ON S COAST
SYDNEY b 63 47 Rain 0·00

28 30 19 F 50

14 30 18 F 51

28 30·18 F 47

Alb'ry	c	62	37	0
B'd'lla	c	71	42	0
Cooma	b	63	33	0
Eden	t.	61	50	0
Gabo	–	..	..	..

W'G, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0 10 on S coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 22.

South Australia reports heavy rains over districts south of Port Augusta, smooth sea, light S.E. winds, and rising barometers round coast; rain—Adelaide 0·410, Port Augusta 0·210, Robe 0·040; Streaky Bay, squally from S.E., 0·150; Port Darwin, fine, S.E., 8; Daly Waters, fine, S., 8; Tennant's and Powell's Creeks, fine light S. and S.E. winds. Victoria: Cloudy all round coast, strong S.E. winds and moderate sea, weather showery and squally, especially to E; rain—Melbourne 0·010, Portland 0·100. New South Wales: Cloudy and raining throughout colony; for measurements, &c., see weather map (page 6); on coast the sea is rising, and the wind increasing from S.E.; barometers are falling all down coast, and a depression at 9 a.m. was over Port Macquarie. Queensland: Cloudy, with variable winds, sea smooth, no rain falling, but measures as follows—Brisbane 0·870, Cape Moreton 0·180. 3 p.m. Observations:—Victoria, barometers steady; Melbourne, S.E., 23, fine, temperature 54°; Portland, E.S.E., 40, squally, rough sea, temperature 55°; Cape Otway, E.S.E., 48, squally, rough sea, temperature 50°; Wilson's Promontory, E.S.E., 34, cloudy, rough sea, temperature 49°; New South Wales: Wentworth, S., fine; temperature 58°; Deniliquin, S.E., 14, fine, temperature 54°; Albury, S.E., strong, fine, temperature 60°; Goulburn, S., dull, temperature 56°; Forbes, calm, cloudy, temperature 55°; Eden, S.E., 42, showery, moderate 53°; Cape George, S.S.E., 42, cloudy, sea rising, temperature 56°; Sydney, S.E., 28, raining, moderate, temperature 52°; Newcastle, S.E., raining, sea rising; Port Macquarie, S., 14, showery, smooth, temperature 63°; Clarence River, N.N.E., like rain, smooth sea, temperature 66°; Menindie, S.W., strong, showery, temperature 59°. New Zealand: Fine generally. State of rivers.—Murrumbidgee: At Balranald, 3 feet above summer level. Murray: At Albury, 4 feet 11 inches above summer level; at Euston, 9 feet 1 inch above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level. Rainfall at Sydney up to 9 p.m., 1·50 inches. Stations not in map: at 9 a.m., rain at Walcha, 0·16; Glen Innes, 0·70; Moree, 0·34; Wilcannia, 0.13; Menindie, 0·20; Carcoar, 0·43; Singleton, 0·35. There are signs of clearing in the western parts of the colony; on the coast up to 3 p.m. the force of wind and sea was increasing, but the rain has not been very heavy.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 22 1881, with NOTES to 3 P.M.

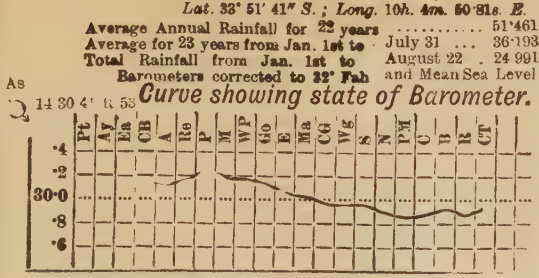
Sydney Observatory.

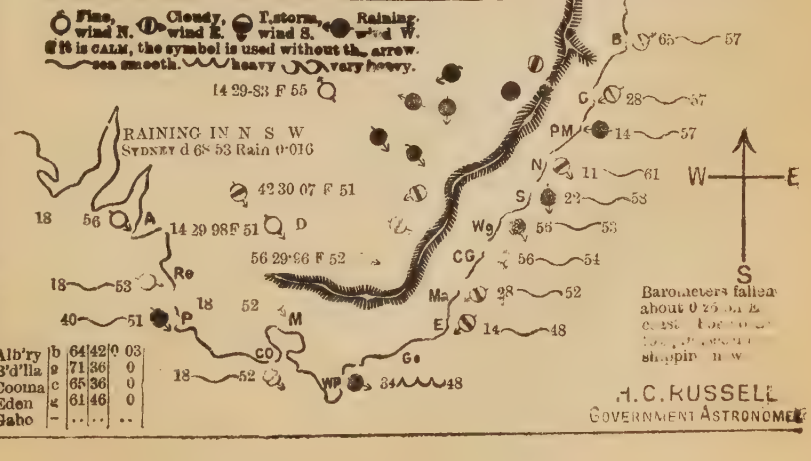
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 22 . 24·991.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	w't	M'x	Ma	R'in
Casino..	b	82	51	0·09
Centerfild	r	67	39	0
Moree....	r	72	52	0·34
Grafton..	r	82	60	0·47
Hl'n Ina's	r	65	39	0·70
Inverell..	r	64	44	0·68
Bourke ..	b	74	48	0
Narrabri	r	71	51	0·10
Armidale	g	61	38	0·23
Bendem'r	r	68	27	0
Canned'h	r	76	29	1·01
Coonam'le	–	71	46	0·66
Camworth	r	72	45	0·89
Coonab'rn	r	68	42	1·37
Macqrie	p	70	53	0·15
Wilcannia	g	69	46	0·13
Curr'undi	r	62	39	0·65
Cassilis..	r	65	35	0·67
Bus'br'ok	r	70	45	0·45
Dubbo...	r	65	43	0·71
Menindie	p	77	48	0·20
Budgee..	r	76	39	0·60
Maitland.	r	62	46	0·27
Hill End.	b	57	48	0·50
Newcastle	c	61	56	0
Orange..	r	53	44	0·66
Bathurst	g	62	37	0·35
		Ea		
Forbes	r	66	39	0·39
Victoria	r	51	41	0·37
Indob'ln	–	..	..	..
Deton..	g	66	42	0
Barcoar..	r	58	38	0·43
Bentw'th	c	56	48	0·52
Young...	r	59	47	0·60
Collgo'ng	r	59	52	0·13
Ly....	–	..	..	..
Moss Vale	r	59	44	0·04
Goulston...	b	63	46	0·89
Goulburn	g	63	41	0·11
Braidwg...	r	61	46	0·21
Cape Geo.	c	64	50	0
Beenb'n	g	63	40	0
Braniliq'in	b	64	43	0·04
Bruya..	g	63	48	0
Andra..	c	36	0b	0
Alb'ry	b	64	42	0·03
B'd'lla	g	71	36	0
Cooma	c	65	36	0
Eden	g	61	46	0
Gabo	–	..	..	..

Curve showing state of Barometer.





WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 55 30 E

Barometers fallen about 0·26 in. [illegible] shippin[illegible]

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 23.

Western Australia: Fine at Perth, with fresh N.E. breeze; temperature 47°. South Australia: Fine generally, with wind between N.N.E. and S.E., and no rain at any of the stations; smooth sea at Cape Borda. Victoria: Cloudy at Wilson's Promontory, Cape Otway, and Omeo; snow on the hills at the latter station; 0.02 of rain fell at Cape Otway, 0.01 at Portland, and 0.15 at Omeo; moderate sea on the South Coast; the barometer has risen about 07°. New South Wales: Cloudy nearly throughout; weather seems clearing at western and S.W. stations; heavy gale and sea on the E. coast, a very heavy sea reported at Newcastle; snowing at Mount Victoria, Moss Vale, Cooma, and Goulburn; raining at Gunnedah, Murrurundi, Muswellbrook, Maitland, Sydney; showery at Cape St. George (see weather map); barometers rising rapidly at Wentworth, and also to the S.W. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S.E., 13, fine, temperature 55°; Portland, N.N.E., 34, fine, slight sea, temperature 51°; Cape Otway, E., 43, cloudy, moderate sea, temperature 51°; Wilson's Promontory, E., 28, squally, misty, moderate sea, temperature 50°; New South Wales: Wentworth, S., light, fine, temperature 55°; Albury, S.E., strong, fine, temperature 58°; Goulburn, S., strong, showery, temperature 51°; Eden, S.E., 40, heavy easterly sea, showery, temperature 53°; Cape George, S.E., 70, raining, heavy sea, temperature 51°; Sydney, S.E., 24, squally, heavy sea, temperature 49°; Newcastle, S.E., stormy, very heavy sea; Maitland, S.W., light, fine, temperature 54°. Sydney, 9 a.m., raining, 2·28 inches; Hill End, fine, rain 0·70; Nelson's Bay, gale, with heavy rain and high sea, rain 2·70 inches; Cassino, raining, 0·24 inch. New Zealand, Monday night, a gale at Timaru, from S.W.; 9 a.m. to-day heavy rain from S.E., and heavy rain from S.E. at Wellington; at other places weather fine. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 5 inches above summer level; at Hay, 3 feet above summer level; Murray, at Albury, 5 feet 4 inches above summer level.

ations	w't	M'x	M.I	R'in
sino..	–	..	..	..
nterfild	–	..	..	..
ree....	–	..	..	..
afton..	–	..	..	..
n Ins's	–	..	..	.
verell..	–	..	..	.
urke ..	b	69	48	0 02
rrabri	–	..	.	..
midale	–	..	..	..
udem'r		..	..	..
nned'h	r	61	43	1 15
onam'le	b	74	41	0 23
nworth	–		..	..
onab'rn	g	60	41	0 81
lacqrie	–		.	..
cannia	–	..	..	.
rr'undi	r	52	41	3 50
silis.	g	53	49	1 43
s'br'ok	r	59	41	1 97
obo...	b	64	43	1 47
indie	b	55	41	04
lgee.	g	67	43	0 75
tland.	r	56	48	4 06
End.	b	57	48	0 70
vcastle	–	..	.	2 05
nge..	c	47	35	0 35
nurst	g	49	38	0 04
18 60		Ea		
corb s	b	59	35	0 21
ict'ria	s	43	37	1 30
iob'ln	–	..		..
n..	p	55	42	0 45
oar..	r	48	34	0 24
tw'th	b	65	41	0
ng...	g	5	39	0 20
go'ng	q	55	46	0 46
....	b	65	37	0
Vale	s	46	36	0 73
on...	–	.	..	..
burn	g	47	31	0 17
ra...	b	60	38	0 01
Geo.	p	63	47	0
nb'n	g	55	32	0
iq'in	–	..	.	..
va..	p	61	40	0 47
ira..	c	25	3	0

WEATHER MAP.

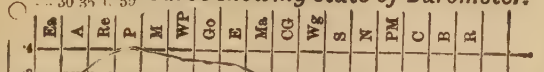
COMPILED from TELEGRAMS for 9 A.M., AUGUST 23 1888, with NOTES to 3 P.M

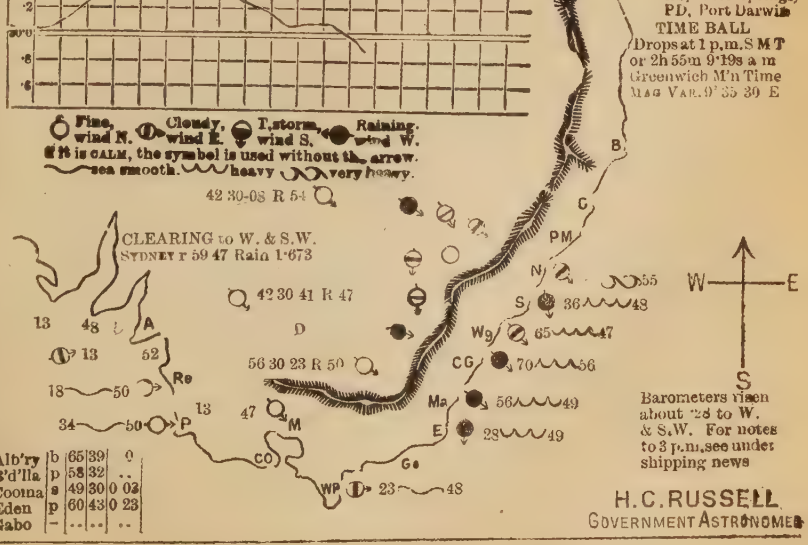
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 23 . 26·664.
Barometers corrected to 32° Fah ... Mean Sea Level

Curve showing state of Barometer.





Alb'ry	b	65	39	0
B'd'lla	p	58	32	..
Cooma	s	49	30	0 03
Eden	p	60	43	0 23
Gabo	–	..	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Roma
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, C'nce R
PM, Pt. Mac
N, New'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG VAR. 9° 35 30 E

Barometers risen about ·28 to W. & S.W. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 24.

Western Australia: Barometer, 29·97; weather fine, with light N.E. wind; rain at Albany, 0·040. South Australia: Fine, clear weather, smooth sea, light northerly winds and falling barometers on coast, very fine inland; Port Augusta, N., 13, fine; Daly Waters, S.E., 23, fine; Port Darwin, S.E., 8, fine. Victoria: Weather very fine and clear all round coast; no rain reported; sea moderate; barometers falling; wind light from N. Tasmania: N.N.W. wind, with light rain; barometer 30·13. New South Wales: Cloudy, showery, and squally on coast; barometers rising; sea rough, wind strong from S.E. and S.W., but moderating; fine and clear inland to W. and S.W. No report from northern station, *i.e.*, north of Muswellbrook. 3 p.m. Observations.—Victoria: Barometer falling; Melbourne, N., 13, fine, temperature 59°; Portland, N., 34, fine, smooth sea, temperature 59°; Cape Otway, N.N.W., 18, cloudy, smooth sea, temperature 56°; Wilson's Promontory, N.E., 18, fine, smooth sea, temperature 54°. New South Wales: Wentworth, N., strong, fine, temperature 55°; Donkerquin, N., 14, fine, temperature 61°; Albury, calm, fine, temperature 58°; Goulburn, S., light, fine, temperature 57°; Forbes, calm, fine, temperature 52; Eden, E.N.E., 14, fine, heavy sea, temperature 56°; Moruya, S.E., 28, fine, very heavy sea, temperature 65°; Cape George, S., 56, fine, heavy sea, temperature 59°; Sydney, S., 42, showery, heavy sea, temperature 53°; Newcastle, S.W., cloudy, heavy sea; Menindie, S.W., light, fine, temperature 56°. New Zealand: Weather generally fine, but strong S.W. gale blowing; heavy sea at Wellington; 2 inches of snow fell last night. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 8 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 3 feet above summer level. Murray: At Albury, 5 feet 8 inches above summer level; at Euston, 9 feet above summer level. Darling: At Wentworth, 8 feet 3 inches above summer level; at Pooncarie, summer level; at Menindie, summer level; at Wilcannia, summer level.

tions.	W'th	M'x	M.n	R'in
ino..	–	..	..	..
terfld	–	..	..	..
ee....	b	57	41	0 03
fton..	–	.	..	..
a Inn's	–	..	.	.
erell..	–	..	..	.
rke ..	b	64	41	0
rabri	b	58	43	0
nidale	–	..	..	..
ndem'r	g	45	28	2 20
med'h	b	52	46	0
onam'le	b	58	36	0
nworth	–		..	1 20
mab'rn	b	54	33	0
flacqrie	–		.	..
cannia	b	61	38	0
rr'undi	g	46	39	0 25
sllis..	b	52	36	0
s'br'ok	g	55	42	0
bbo...	b	64	42	0
nindie	n	54	35	0
dgee..	b	65	35	0
itland.	p	64	55	0 55
l End.	b	57	47	0
wcastle	p	58	45	0 90
nge..	o	47	33	0
hurst	b	49	35	0
23 66		Ea		
f'orb's	b	58	38	0
ict'ria	s	37	32	0 32
idob'ln	–	..	.	..
on..	p	59	41	0 76
coar..	b	46	37	0 03
ntw'th	n	60	32	0
ng...	b	53	34	0
llgo'ng	–	..	..	..
y....	–	..	..	..
s Vale	r	41	35	1 40
ton...	b	64	25	0
lburn	t	45	41	0
gga...	n	55	32	0
e Geo.	q	64	45	0 90
anb'n	b	55	30	0
iliq'in	n	60	29	0
ruya..	g	58	42	0 12
ndra..	b	27	6	0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 24 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 24 .. 47·538.
Barometers reduced to 32° Fah. and to Sea Level

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy

28 30-20 R 45

Alb'ry	b	60	27	0
B'd'lla	c	56	33	0 27
Cooma	n	46	30	0 02
Eden	g	52	44	0 26
Gabo	–	..	..	..

Wo, Wollongong
Co, Cape George
Ma, Moruya
E, Eden
Go, Gabo
Wl, Wilsons P'nt
Cg, Cape Conway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Bordia
A, Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockhampton
B, Brisbane
C, Cape B.
Pt, Pt. Macquarie
N, Newcastle
Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich Mean Time
MAG VAR. 9° 55′ 30″ E

Barometers fallen about 0·15 on S coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 25.

Western Australia: Cloudy, light W.N.W. winds, and rough sea; barometer, 29·90 and 29·70 in the south of the colony. South Australia: Cloudy threatening weather in the south of the colony, with falling barometers and light northerly winds; Port Augusta, N., 8, dull; Port Darwin, N.W., 8, fine; Daly Waters, E.S.E., 8, fine; Streaky Bay, S.S.W., 28, gloomy, light rains of about 0·40 measured round the south coast. Victoria: Cloudy and dull all round, sea moderate, barometers falling, winds fresh from N. Rain: Cape Otway, 0·030; Portland, 0·110; barometric depression off coast passing eastward. New South Wales: Fine clear weather throughout; rain has cleared off, and on the coast the sea is going down rapidly, and the winds have gone round to the N.W.; the barometers have risen since last night. For rainfall, &c., see map. Queensland: Cooktown, weather fine and clear; barometer, 30·00. 3 p.m. Observations.—Victoria: Melbourne, N., 23, cloudy, temperature 54°; Portland, W.S.W., 23, fine, sea smooth, temperature 59°; Cape Otway, N., 23, cloudy, sea moderate, temperature 54°; Wilson's Promontory, N., 23, squally, slight, temperature 59°. New South Wales: Wentworth, W., threatening, temperature 59°; Deniliquin N.W., dull, temperature 59°; Albury, calm, cloudy, temperature 55°; Goulburn, W., fine, temperature 57°; Forbes, calm, fine, temperature 54°; Eden, E.N.E., 14, fine, sea heavy, temperature 57°; Cape St. George, W.N.W., 28, fine, sea moderate, temperature 59°; Sydney, N.W., light, fine, sea smooth, temperature 62°; Newcastle, N.N.W., fine, sea moderate; Port Macquarie, S.E., fine, sea moderate, temperature 60°; Clarence River, S.E., 11, fine, sea heavy, temperature 64°; Moreton, N.E., fine, temperature 66°. New Zealand: N.E. wind, and rain in North Island 1,00 in. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 3 inches above summer level; at Hay and Balranald, 3 feet above summer level; Murray, at Albury, 5 feet 5 inches above summer level; at Euston, 8 feet 11 inches above summer level; Darling, at Wentworth, 8 feet 2 inches above summer level.

WEATHER MAP.

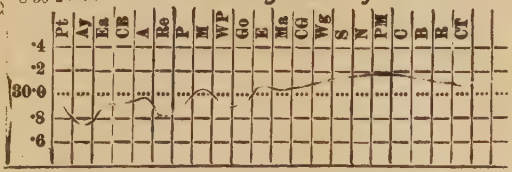
COMPILED from TELEGRAMS for 9 A.M., AUGUST 25 1881, with NOTES to 3 P.M.

Sydney Observatory.

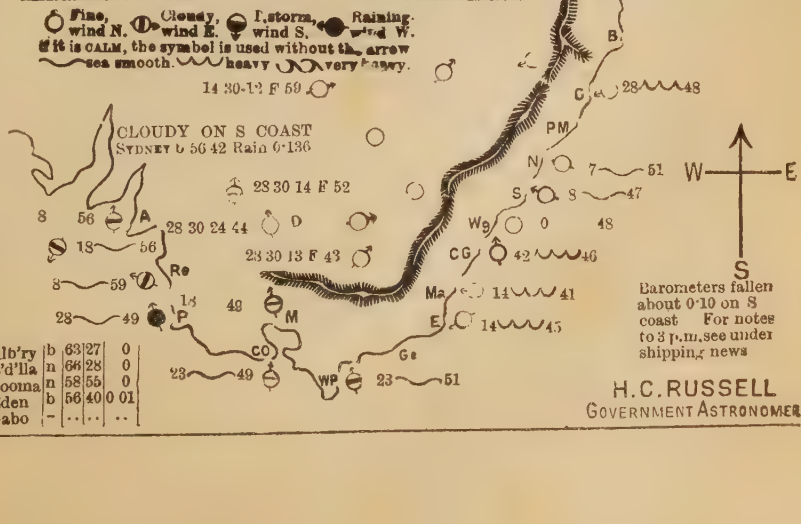
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 .... 36·193
Total Rainfall from Jan. 1st to August 25 . 27·672.
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.



Barometers fallen about 0·10 on S coast For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E.

tions.	w't	M'x	M.)	R'in
ino..	b	77	35	0 05
terfild	–	..	..	..
ee....	b	70	42	0
fton..	b	62	0	0
Inn's	n	56	27	0
erell..	b	55	31	0
rke ..	b	66	40	0
rabri	b	61	40	0
idale	–	..	..	..
dem'r	b	55	28	0
med'h	b	69	32	0
nam'le	b	61	37	0
nworth	–	..	..	..
nab'rn	b	62	28	0
acqrie	–	..	..	..
cannia	b	62	39	0
r'undi	b	52	36	0
ulis..	n	56	32	0
b'br'ok	b	59	35	0
bo...	b	65	43	0
indie	b	63	35	0
lgee..	b	71	33	0
tland.	b	55	41	0
End.	b	56	45	0
castle	p	62	46	0 60
nge..	o	50	31	0
urst	n	54	28	0
13 59		Ea		
forb's	b	61	35	0
ict'ria	b	44	31	0 02
dob'ln	–	..	..	..
on..	n	56	32	0
coar..	n	48	33	0
tw'th	g	62	38	0
ng...	b	58	35	0
lgo'ng	o	61	40	0 02
....	–	..	..	..
Vale	n	47	31	0 10
on...	–	..	..	..
lburn	b	56	27	0
ga...	n	54	31	0
Geo.	b	56	39	0 25
anb'n	n	55	29	0
liq'in	b	61	35	0
aya..	b	77	35	0
dra...	b	72	45	0

Alb'ry	b	63	27	0
B'd'lla	n	66	28	0
Cooma	n	58	55	0
Eden	b	56	40	0 01
Gabo	–	..	..	..

METEOROLOGICAL REPORTS.—August 26.

Western Australia: Gloomy, fresh S.W. winds; rain at Perth, 0·290; Albany, 0·710. South Australia: Fine at generality of stations, rain up at head of Spencer's Gulf, rough sea at Borda, barometers still falling, winds fresh from N.; rain, Port Augusta, 0·050; Daly Waters, N.E., 8, fine; Port Darwin, S., 8, fine; Tennant's Creek, calm, fine; Powell's Creek, S.E., 8, fine. Victoria: Fine round coast, with light northerly winds, falling barometers, and smooth sea; rain, Melbourne, 0·610. New South Wales: Fine at majority of stations, cloudy at scattered stations to S.W. and S. of Sydney; barometers fallen slightly since yesterday; smooth sea on coast, with light W. and N.W. winds; [illegible] Cascoar, 0·050. Queensland: No reports received. [illegible] Observations.—Victoria: Melbourne, N., 18, fine, temperature [illegible]; Portland: N.W., 40, fine, smooth sea, temperature [illegible]; Cape Otway: W.N.W., 28, cloudy, moderate sea, temperature 64°; Wilson's Promontory, N.W., 8, cloudy, very smooth sea, temperature 63°. New South Wales: Wentworth, N.W., raining, temperature 59°; Deniliquin, N.N.W., 28, cloudy, temperature [illegible]; Albury, W., 15.. cloudy, temperature 60°; Goulburn, W., fine, temperature 61°; Eden, N.E., 14, fine, light, temperature [illegible]; Moruya, N.E., 40, fine, sea rough, temperature 62; Cape George, N., 28, fine, smooth sea, temperature 62°; Sydney, N.N.E., 14, fine, smooth sea, temperature 65°; Newcastle, W., fine, smooth sea; Port Macquarie, N.W., 14, fine, smooth sea, temperature 73°; Clarence River, E., 14, fine, moderate sea, temperature 66°; Tenindie, N.E., strong, overcast, temperature 65°. New Zealand: Heavy S.W. gale at Taranaki; rain from S.E. at Timaru and Wellington. State of Rivers.—Murrumbidgee: At Wagga, 5 feet [illegible] inches above summer level; at Hay, 3 feet above summer level; at Balranald, 3 feet above summer level. Murray: At Albury, 5 feet 1 inch above summer level; at Euston, 3 feet [illegible] inches above summer level. Darling: At Wentworth, 7 feet [illegible] inches above summer level; at Pooncarie, Merindie, and Bourke, summer level.

tions.	W'th	M'x	M.D	R'in
no..	b	74	34	0
terfld	b	59	30	0
ee....	b	74	46	0
ton..	b	64	49	0
Inn's	b	62	26	0
rell..	b	59	31	0
rke ..	b	70	47	0
abri	b	64	40	0
idale	–	..	..	..
lem'r	b	59	35	0
ned'h	–		..	.
iam'le	b	65	38	0
worth	b	66	32	0
ab'rn	b	64	29	0
cqrie	b	63	44	0
annia	b	59	47	0
'undi	b	56	41	0
lis..	b	65	37	0
br'ok	b	64	40	0
o...	b	67	44	0
ndie	g	60	48	0
ree..	g	71	34	0
and.	g	59	44	0
nd.	b	56	46	0
astle	b	65	47	0
ge..	o	49	36	0
irst	b	59	33	0
3 64		Ea		
orb's	b	65	41	0
t'ria	g	50	32	0
ob'ln	–	..	..	..
..	c	61	40	0
ar..	b	51	39	0 09
v'th	g	69	50	0
r...	o	60	49	0
o'ng	c	70	46	0
..	g	4	40	0
'ale	b	54	43	0
h...	g	71	45	0
arn	b	58	39	0
....	g	59	40	0
eo.	b	68	49	0
o'n	b	62	35	0
p'in	g	59	42	0
a..	g	61	39	0
a..	b	65	40	0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 26 1881, with NOTES to 3 P.M

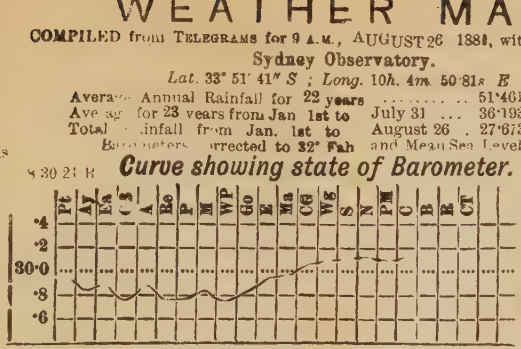
Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 26 . 27·673.
Barometers corrected to 32° Fah and Mean Sea Level

As

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

Alb'ry	g	62	39	0 02
B'd'lla	b	69	33	0
Cooma	n	61	24	0
Eden	c	58	43	0
Gabo	–	..	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Roma
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·08 on S coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 26.

Western Australia: No telegrams. South Australia: Weather threatening, barometers rising, rough sea, and light variable winds on coast; light rain fallen in W.; Streaky Bay, N.W., 18, cloudy; Port Augusta, calm, fine; Daly Waters, fine; Port Darwin, S.E., 8, fine; rain Adelaide, 0·040; Eucla, 0·070; Borda, 0.070; Robe, 0·130. Victoria: Showery weather, rough coast, with moderate westerly squalls; sea rough; barometers at 29·80, and rising at the rate of about 0·150 in twelve hours. Rain measurements—Melbourne, 0·010; Cape Otway, 0·340; Portland, 0·390; Wilson's, 0·510. Tasmania, low Heads; reports fine weather with strong W. winds. New South Wales: Weather fine, clear, and warm, smooth sea, falling barometers, and light northerly winds; cloudy at Dubbo, Bathurst, Forbes, and Kiamoa; stormy at Cooma. Queensland: Brisbane, 30·20 S.W., 3, fine, temperature 62°; moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria: Barometers rising; Portland, W.S.W., 40, cloudy, smooth sea, temperature 55°; Cape Otway, W., 28, showery, rough sea, temperature 55°; Wilson's Promontory, W., 28, squally, moderate sea, temperature 51°. New South Wales: Wentworth, fine, temperature 60°; Deniliquin, S.W., fine, temperature 67°; Albury, W., fine, temperature 61°; Goulburn, W., cloudy, temperature 66°; Eden, W.S.W., showery, sea smooth, temperature 64°; Moruya, N.W., fine, squally, sea moderate; Sydney, W. strong and squally, temperature 67°; Newcastle, W., fine, sea smooth; Port Macquarie, N.E., fine, sea smooth; Clarence River, N.W., sea smooth, temperature 71°. New Zealand: Fine, but barometer falling fast, rough sea, and rain from S.W. at Wellington; rain, 1·38. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 6 inches above summer level; at Hay, 3 feet 2 inches above summer level; at Balranald, 3 feet above summer level. Murray: At Albury, 5 feet 1 inch above summer level; at Euston, 8 feet 9 inches above summer level. Darling: At Wentworth, 7 feet 10 inches above summer level; at Menindie, summer level.

ations.	w'th	M'x	M'n	R'in
ino..	b	81	48	0
iterfild	b	87	29	0
ree....	b	78	48	0
rfton..	b	72	48	0
a Ian's	n	77	20	0
ersn...	b	62	39	0
urke ..	b	79	53	0
rranri	b	79	45	0
mdale	–	..	..	..
ndem'r	b	60	43	0
aned'h	–	..	..	.
nanna	–	..	..	.
nworth	–	..	..	..
nab'rn	b	69	35	0
Iacqrie	b	65	47	0
ranna	g	72	50	0
rr'und	b	61	48	0
silis.	b	65	38	0
s'br'ok	b	70	41	0
bbo...	g	62	47	0
undie	g	74	51	0
dgee.	b	73	42	0
rtland.	–	..	..	.
l End.	g	56	46	0
wcastle	b	68	43	0
uge..	o	56	43	0
hurst	c	65	42	0
— 55		Ea		
corb's	c	68	42	0
ict'ria	b	58	42	0
dob'lu	g	57	50	0
on..	b	66	39	0
coar..	b	58	44	0
ntw'th	b	67	49	0
ng...	g	64	50	0
lgo'ng	o	71	5[illegible]	0
.....	b	66	43	0
ns Vale	t.	61	48	0
ton...	b	73	41	0 02
nburn	b	65	47	0
gga...	b	66	48	0 05
e Geo.	b	66	53	0
anb'n	o	68	42	0
iliq in	b	67	44	0 02
uya..	b	67	53	0
adra..	c	66	41	0

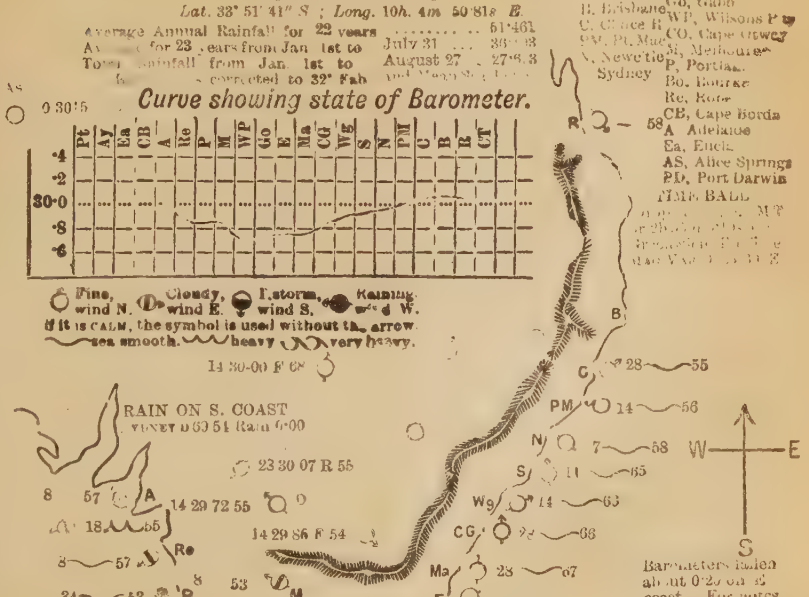
WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 27 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50·81*s* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Av[illegible] for 23 years from Jan 1st to July 31 ..... 36·[illegible]3
Total rainfall from Jan. 1st to August 27 ..... 27·6.3
[illegible] corrected to 32° Fah [illegible]



Alb'ry	b	67	45	0 28
B'd'lla	b	74	40	0
Cooma	g	67	39	0
Eden	b	61	39	0
Gabo	–	..	..	..

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 29.

Western Australia: Fine and clear, with smooth sea and light winds round S.W. coast. South Australia reports gloomy ather round the coast, sea smooth, barometers rising slowly, nd light from S E., fine inland. Streaky Bay: N.E., 13, cloudy. ort Augusta: Calm, fine, rain 0·010. Daly Waters: Calm and ie. Port Darwin: Calm, cloudy, sea smooth. Rain—Adelaide, 110; Eucla, 0·040; Cape Borda, 0 010; Robe, 0·030. Victoria: oudy and squally round coast, raining lightly at Melbourne, ugh sea at Cape Otway, wind fresh from S.W., barometers ing, moderate sea at Wilson's Promontory and Portland. in—Melbourne, 0 020; Otway, 0 150; Portland, 0·110; Wilson's on ontory, 0 020. New South Wales: Fine up north and inland N.W. and S.W., band of cloudy weather from Clarence eds to Kiandra, stretching inland as far as Armidale and Forbes; ooth sea, light S.W. and W. winds, and rapidly-rising barome- s on coast. For rainfall, &c., see weather map. 3 p.m. bservations.—Victoria, barometers steady: Melbourne, S., 13, udy, temperature 52°; Portland, S.S.W., 23, passing showers, oderate sea, temperature 51°; Cape Otway, S.W., 8, misty rain, igh sea, temperature 52°; Wilson's Promontory, W.S.W., 23, udy, squally, moderate sea, temperature 50°. New South ales: Wentworth, S., fine, temperature 57°; Albury, calm, fine, mperature 59°; Goulburn, calm, fine, temperature 60°; Forbes, m. fine, temperature 55°; Eden, W.S.W., 28, like rain, smooth , temperature 60°; Moruya, S.E., 28, fine, smooth sea, tempera- re 50°; Cape George, S., 42, fine, little sea, temperature 52°; bney, S., 14, fine, smooth sea, temperature 57°; Newcastle, V., dull, smooth sea; Clarence River, S.E., 28, cloudy, smooth , temperature 50°. New Zealand: On Sunday a heavy N.W. generally, to-day barometers rising with strong S.W. gale; ometers 29·50 in the North, and at the Bluff 28·80, rising. State Rivers.—Murrumbidgee: At Wagga, 5 feet 3 inches above mmer level; at Hay, 3 feet 9 inches above summer level; at ranald, 3 feet above summer level. Murray: At Albury, 4 1 inch above summer level; at Euston, 8 feet 7 inches above mmer level. Darling: At Wentworth, 7 feet 8 inches above mmer level; at Pooncarie, Menindie, and Wilcannia, summer el.

WEATHER MAP.

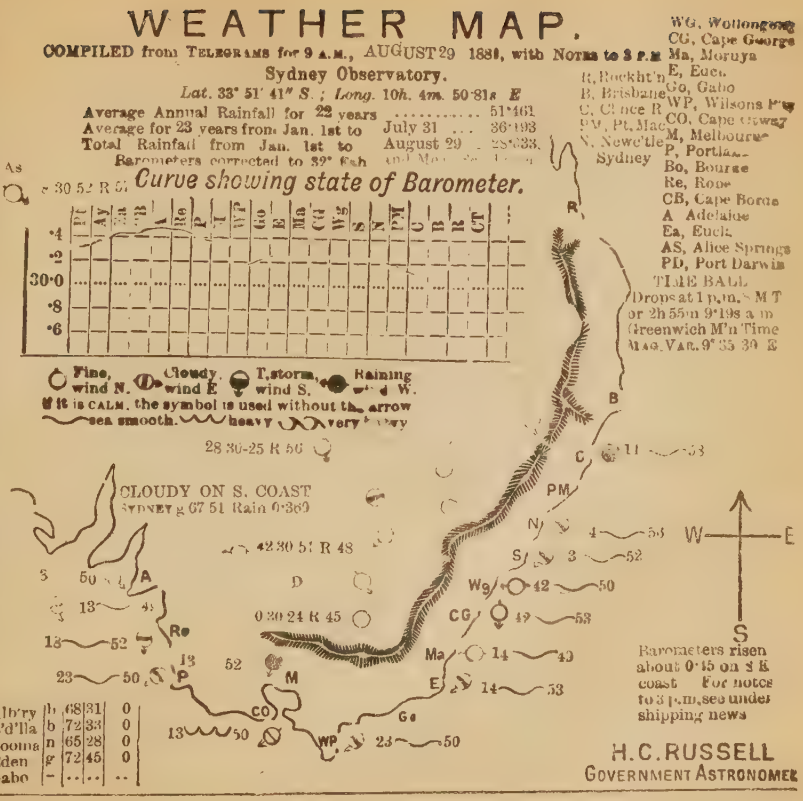
COMPILED from TELEGRAMS for 9 A.M., AUGUST 29 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to August 29 ... 25·333
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	W'x	M.D.	R'in
asino..	b	79	55	0 07
enterfild	b	70	35	0
oree....	b	85	52	0
rafton..	b	76	41	0 27
l'n Ian's	b	72	29	0
iverell..	b	69	39	0
ourke ..	b	77	47	0
arraori	b	78	49	0
rmidale	g	62	32	1 02
eudem'r	f	70	45	0 15
nned'b	b	84	42	0
oonam'le	b	77	42	0
unworth	b	74	38	0
onab'rn	b	70	39	0
Macqrie	–	..	..	.
ilcannia	b	69	45	0
irr'undi	g	69	45	0 17
ssilis..	b	62	35	0 10
is'br'ok	f	3	42	0
ubbo...	b	6	35	0
enindie	b	67	40	0 07
ndgee	b	73	37	0 01
itland.	c	73	35	0 19
ll End.	b	0	50	0
wcastle	g	64	47	0 40
ange.	b	56	35	0
thurst	o	63	30	0
13 57		ka		
orb's	c	57	39	0
Vict'ria	c	53	35	0 02
adob'n	b	50	30	0
ton..	b	63	41	0 60
rcoar..	n	59	34	0 20
ntw'th	b	62	39	0
ang...	n	59	36	0 20
ilgo'ng	o	70	53	0
y...	b	67	39	0
iss Vale	b	58	43	0
ton...	–	..	..	..
ulburn	b	66	34	0
gga...	–	..	..	..
e Geo.	b	66	47	0
anb'n	b	61	35	0
iliq in	–	..	..	..
uva..	b	68	40	0
ndra..	c	63	39	0
Alb'ry	b	68	31	0
B'd'lla	b	72	33	0
Cooma	n	65	28	0
Eden	g	72	45	0
Gabo	–	..	..	..



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 30.

Western Australia: Perth, barometer 30·27, temperature 72°, E., 3 miles; Albany, barometer 30·26, temperature 62°, calm, cloudy. South Australia reports high barometers and light S.E. winds, smooth sea on coast, weather threatening: Streaky Bay, E.N.E., 13, dull; Port Augusta, S.E., 13, dull; Daly Waters, S.E., 8, fine; Port Darwin, calm, fine; Tennant's Creek, S.E., 23, fine; Powell's Creek, S.E., 8, fine. New South Wales: Fine clear weather throughout the colony, light S.W. winds, rising barometers, and smooth sea on coast; rain at Maitland 0·100, and Nelson's Bay 0·440. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, cloudy, temperature 53°; Cape Otway, S.W., 13, showery, moderate sea, temperature 50°; Portland, S.W., 23, raining, slight sea, temperature 52°; Wilson's Promontory, W., 23, cloudy, slight sea, temperature 51. New South Wales: Sydney, E.S.E., 8, fine, temperature 59°. New Zealand: Heavy S.W. gale blowing at the Bluff, with snow, barometer down to 29·10; weather fine, with westerly wind, at Wellington; telegraph line to North Island interrupted. General reports from Victoria have not been received to-day, but from the telegrams received it is evident the barometers are all high over S.E. Australia, with fine weather. State of Rivers.—Murrumbidgee: At Hay, 5 feet 10 inches above summer level; at Balranald, 3 feet 2 inches above summer level. Murray: At Albury, 5 feet above summer level; at Euston, 8 feet 7 inches above summer level. Darling: At Wentworth, 7 feet 7 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

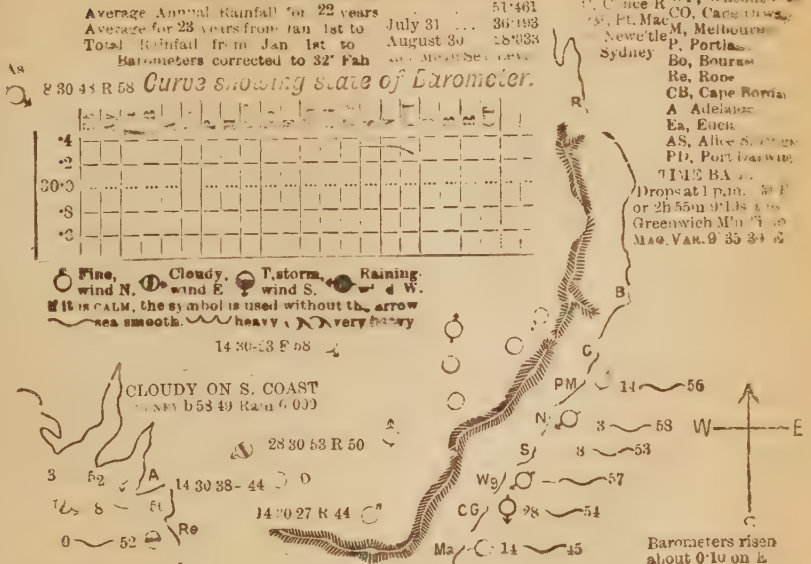
COMPILED from TELEGRAMS for 9 A.M., AUGUST 30 1881, with NOTES to 3 P.M.

Sydney Observatory

Lat 32° 51′ 41″ *S* ; *Long* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years . . . 51·461
Average for 23 years from Jan 1st to July 31 . . . 36·193
Total Rainfall from Jan 1st to August 30 . . . 28·933
Barometers corrected to 32° Fah

Stations	W'r	W'S	M.S	R'in
Casino.	b	69 37		0
Tenterfield	b	61 37		0
Moree...	b	88 53		0
Grafton.	b	76 35		0
Gl'n Inn's	b	72 53		0
Inverell..	b	65 36		0
Bourke .	b	70 44		0
Narrandi	b	70 41		0
Armidale	b	63 33		0
Bendem'r	b	68 48		0
Gunned'h	–	..		.
Coonamble	b	68 28		0
Tamworth	b	73 37		0
Coonab'rni	b	68 29		0
P. Macquarie	b	64 48		0
Wilcannia	o	62 43		0
Murr'undi	b	69 40		0
Cassilis	b	63 32		0
Mus'br'ok	b	6 40		0
Dubbo...	b	64 44		0
Menindie	n	62 39		0
Mudgee	b	76 42		0
Maitland.	b	70 54	0	10
Hill End.	b	59 49		0
Newcastle	b	61 49		0
Orange..	n	57 36		0
Bathurst	b	62 34		0
0 58		6a		
Forbes	..	1 39		0
McVic'ria	c	62 33		0
Condob'lin	–			
Picton..	b	61 33		0
Carcoar.	b	59 37		0
Wentw'th	g	63 42		0
Young...	b	64 38		0
Wollgo'ng	n	65 45		0
Hay...	b	67 37		0
Moss Vale	b	52 35		0
Euston...	g	66 41		0
Goulburn	b	61 28		0
Wagga...	o	58 34		0
Cape Geo.	b	59 44		0
Queanb'n	n	70 31		0
Deniliq'in	b	79 34		0
Moruya..	b	77 40		0
Kiandra..	b	69 45		0
Alb'ry	b	68	30	0
B'd'lla	b	68	32	0
Cooma	n	56	24	0
Eden	b	59	46	0
Gabo	–	..	..	..



Barometers risen about 0·10 on E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—August 31.

Western Australia: Gloomy weather round S.W. coast, sea smooth, wind light from N.E. and N.W., barometers, 30·000. South Australia: Cloudy and threatening, barometers falling slowly, sea smooth round S. coast with light N.E. winds and calm Streaky Bay, E.N.E., 13, fine; Port Augusta, S., 8, fine; Daly Waters, S.E., 23, fine; Port Darwin, N.W., 8, fine; Powell's Creek, S.E., 23, fine; Tennant's Creek, S.E., 34, fine. Victoria: Cloudy weather all round coast and inland as far as Omeo and Echuca, smooth sea, falling barometer, and light westerly winds; rain, Melbourne 0·010, Otway 0·020, Portland 0·210, Wilson's 0·060. New South Wales: Fine and clear, smooth sea, light W. winds and calm down coast, barometers steady, cloudy near Queensland border especially on coast, showery at mouth of Clarence River; rain 0·200. Queensland: Rockhampton, showery, wind S.E.; Cooktown, fine and clear, light S.E. wind. 3 p.m. Observations.—Victoria: Melbourne, S.W., 8, cloudy, temperature 53°; Portland, W., 28, cloudy, sea smooth, temperature 55°; Cape Otway, N.W., 18, raining, sea moderate, temperature 53°. New South Wales: Deniliquin, S.W., 14, fine, temperature 61°; Albury, N.W., light, fine, temperature 60°; Goulburn, N.E., fine, temperature 62°; Forbes, calm, fine, temperature 56°; Eden, E.N.E., 14, fine, sea smooth, temperature 55; Cape George, N.E., 28, fine, sea moderate, temperature 62°; Sydney, E.N.E., 14, fine, sea smooth, temperature 59°; Newcastle, E., fine, sea smooth. New Zealand: Depression passing over Timaru, heavy south-west gale at Russell, Taupo, and Taranga, moderate at other places. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 1 inch above summer level; at Hay, 6 feet 6 inches above summer level; at Balranald, 3 feet 3 inches above summer level. Murray: At Albury, 4 feet 7 inches above summer level; at Euston, 8 feet 7 inches above summer level. Darling: At Wentworth, 7 feet 7 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

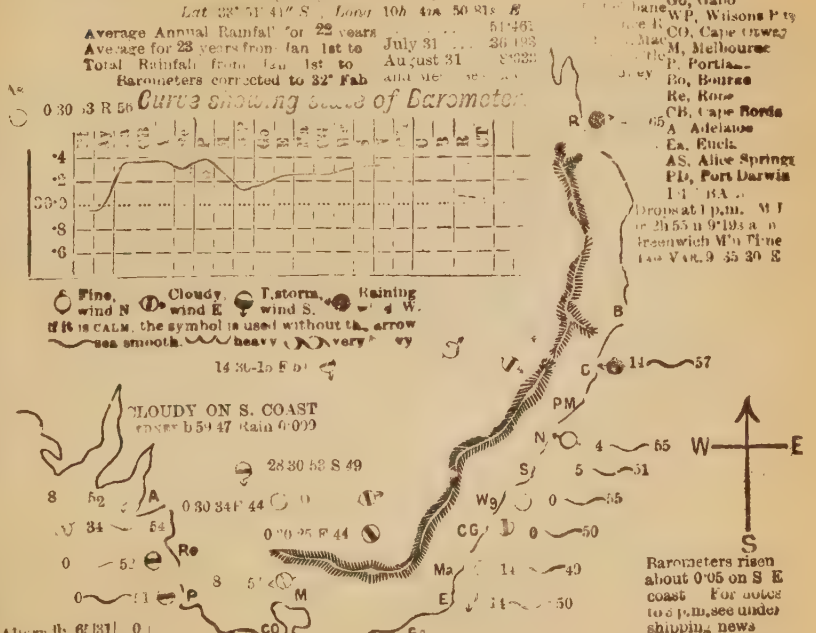
WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., AUGUST 31 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S., Long. 10h 4m 50·81s E.

Average Annual Rainfall for 22 years ... 51·46
Average for 23 years from Jan 1st to July 31 ... 36·193
Total Rainfall from Jan 1st to August 31 ...
Barometers corrected to 32° Fah. and Mean ...



Stations.	W'th	W'ind	Rain
Casino..	c	77 42	0
Tenterfield	c	65 48	0
Moree....	g	84 75	0
Grafton..	g	78 36	0
Gl'n Inn's	c	72 48	0
Inverell..	b	65 36	0
Bourke ..	g	71 47	0
Narrabri	c	71 41	0
Armidale	b	62 33	0
Bendem'r	b	69 43	0
Gunned'h	–	..	..
Coonamble	b	70 41	0
Tamworth	b	72 43	0
Coonab'rn	b	68 30	0
P.Macqrie	b	63 48	0
Wilcannia	o	62 40	0
Murr'undi	b	60 40	0
Cassilis	g	63 36	0
Mus'br'ok	b	7 41	0
Dubbo...	b	65 45	0
Menindie	n	60 33	0
Mudgee	b	77 40	
Maitland.	b	64 43	0
Hill End.	b	59 39	0
Newcastle	h	65 48	0
Orange.	n	53 32	0
Barburst	b	6 31	0
[illegible]	[illegible]	58 30	0
Mt Vict'ria	c	54 30	0
Coudob'lin	b	52 28	0
Picton..	b	69 38	0
Carcoar..	n	54 37	0
Wentw'th	c	64 33	0
Young...	b	61 39	0
Wollgo'ng	o	66 50	0
Hay...	b	63 36	0
Moss Vale	r.	55 38	0
Euston...	b	63 36	0
Goulburn	f	64 47	0
Wagga...	b	59 34	0
Cape Geo.	o	1 43	0
Queanb'n	b	75 40	0
Deniliq'in	b	61 31	0
Moruya..	b	7 44	0
Kiandra..	n	69 46	0
Albury	b	67 31	0
B'd'lla	b	66 32	0
Cooma	c	65 22	0
Eden	b	60 48	0
Gabo	–	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A, Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

Drops at 1 p.m. M.T. or 2h 55m 9·193s a.m. Greenwich M'n Time
Var. 9° 35′ 30″ E

Barometers risen about 0·05 on S.E. coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—September 1.

Western Australia: Cloudy weather, light S.E. winds and calm. Rain: Albury, 0·230; Perth, 0·100. South Australia: Cloudy round coast, wind light and variable; barometers steady; no rain falling; fine inland on overland telegraph line, with light S.E. winds and calms; Streaky Bay, N., 23, gloomy; Port Augusta, calm, fine. Victoria: Cloudy all round coast, fresh S.E. winds, steady barometers, and moderate sea; showery at Wilson's Promontory; rain 0·300; ditto at Portland, 0·120. New South Wales: Fine, clear weather to S. of Sydney, and in centre of colony; cloudy and raining up N. extending S. as far as Port Macquarie; smooth sea, falling barometers, and fresh westerly winds on coast. For rainfall, &c. see map. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S., 13, fine, temperature 54°; Portland, E.S.E., 13, cloudy, smooth sea, temperature 55°; Cape Otway, S., 13, cloudy, moderate sea, temperature 52°. New South Wales: Wentworth, calm, fine, temperature 57°; Deniliquin, calm, fine, temperature 63°; Albury, S.W., moderate, fine, temperature 59°; Goulburn, W., strong, fine, temperature 60°; Forbes, calm, fine, temperature 57°; Eden, S.W., moderate, fine, smooth sea, temperature 55°; Moruya, S.E., 28, fine, smooth sea, temperature 58; Cape George, S.S.E., 28, fine, smooth sea, temperature 59°; Sydney, E.N.E., 14, fine, smooth sea, temperature 62°; Newcastle, E., fine, smooth sea; Port Macquarie, S.W., 28, raining, smooth sea, temperature 61°; Menindie, calm, fine, hazy, temperature 58°. New Zealand: Fine generally; sharp shock of earthquake at 2.25 a.m. State of Rivers.—Murrumbidgee: At Wagga, 5 feet above summer level; at Hay, 7 feet above summer level; at Balranald, 4 feet above summer level. Murray, at Albury, 3 feet 9 inches above summer level; at Euston, 8 feet 5 inches above summer level. Darling, at Wentworth, 7 feet 7 inches above summer level.

Stns.	wt	Mx	Mn	Rain
o..	r	63	52	0 96
rfild	d	50	44	0 49
p....	g	65	54	0
on...	c	66	41	0 61
n's	r	71	48	0 34
oll..	p	65	37	0 0
ge..	b	75	50	0
bri	g	83	51	0 18
dale	r	62	39	0 40
em'r	g	70	42	0 25
ed'n	g	77	39	0 05
aun'le	–	70	41	0
vorth	g	72	49	0 11
ab'rn	b	67	44	0
eqrie	r	64	53	0 21
nnia	b	65	41	0
'undi	g	59	43	0
lis.	b	64	37	0
or'ok	g	[illegible]	44	0
o...	b	62	44	0
ndie	n	66	39	0
ree	b	72	45	0
and.	c	64	44	0
und.	b	54	49	0
astle	b	64	47	0
ge..	n	55	34	0
urat	b	62	31	0
e —		Ca		
'orb's	b	64	37	0
ct'ria	n	[illegible]	20	0
ob'ln	b	55	30	0
a..	b	62	55	0
oar..	b	55	35	0
w'th	c	63	39	0
ng...	o	65	37	0
go'ng	b	71	56	0
....	t	67	34	0
Vale	b	57	36	0
on...	b	69	31	0
burn	b	67	29	0
ga...	o	61	38	0
Geo.	b	64	44	0
nb'n	n	70	30	0
liq'in	o	60	36	0
aya..	s	69	40	0
dra..	s	49	37	0

WEATHER MAP.

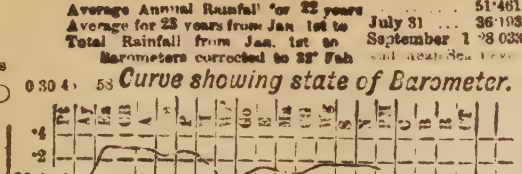
COMPILED from Telegrams for 9 a.m., SEP'T 1 1891, with Notes to 9 p.m.

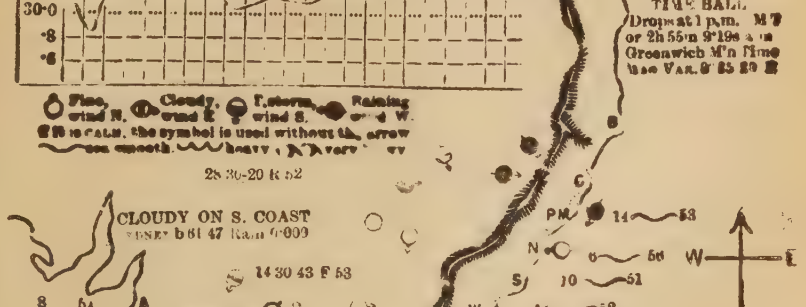
Sydney Observatory.

Lat. 33° 51′ 41″ S ; Long 10h. 4m 59·9s E

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to July 31 . . . 36·193
Total Rainfall from Jan. 1st to September 1 . . 28·033.
Barometers corrected to 32° Fah. and mean Sea Level.

Curve showing state of Barometer.





H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—September 2.

Western Australia: Showery at Perth; barometer 30·24, rain 0·140, bar rising, squally from W.S.W.; at Albany, rain 0·250. South Australia: Cloudy all round S. coast, light rain having began to fall in early morning, sea smooth, barometer falling rapidly, wind fresh from N.; Streaky Bay, N.N.W., 23, gloomy, rain 0·130; Port Augusta, N., 13, gloomy; rain at Adelaide, 0·110; Eucla, 0·020; Borda, 0·050; Robe, 0·040; fine and clear inland on telegraph line. Victoria: Cloudy all round coast, sea moderate, winds fresh from N., barometers falling; showery at Portland, rain 0·060. New South Wales: Fine and clear, smooth sea, light S.W. winds and steady barometers on coast; fine, clear, and frosty inland. For particulars at each station see map page 6, 3 p.m. Observations.—Victoria: Barometers falling. Melbourne, N., 23, gloomy, squally, temperature 54·; Portland, N.N.W., 28, showery, sea smooth, temperature 52·; Cape Otway, N., 56, showery, smooth sea, temperature 48; Wilson's Promontory, N.N.E., 18, gloomy, smooth sea, temperature 50·. New South Wales: Wentworth, N., strong, cloudy, temperature 58·; Deniliquin, N., 14, dull, temperature 61·; Albury, N.E., light, fine, temperature 58·; Goulburn, calm, fine, temperature 61·; Forbes, calm, cloudy, temperature 55·; Eden, N.E., 14, fine, smooth sea, temperature 53·; Moruya, N.E., 20, fine, sea moderate, temperature 55·; Cape George, S.E., 14, fine, smooth sea, temperature 57·; Sydney, N.N.E., 14, fine, smooth sea, temperature 57·; Newcastle, S.E., fine, smooth sea; Port Macquarie, S.S.W., 28, fine, smooth sea, temperature 41·; Menindie, N.E., gloomy, temperature 65·. New Zealand, fine generally; light westerly winds. It will be seen on reference to the weather map that a depressing is now passing along the coast of Victoria, with strong northerly winds, which will in a few hours veer to W. and S.W.; from the character of this depression it is probable that the wind will be strong, with rain extending into the southern parts of this colony. State of Rivers: Murrumbidgee: At Wagga, 5 feet above summer level; at Hay, 7 feet above summer level; at Balranald, 5 feet above summer level. Murray: At Albury, 3 feet 8 inches above summer level; at Euston, 8 feet 5 inches above summer level. Darling: At Wentworth, 7 feet 7 inches above summer level; at Poncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

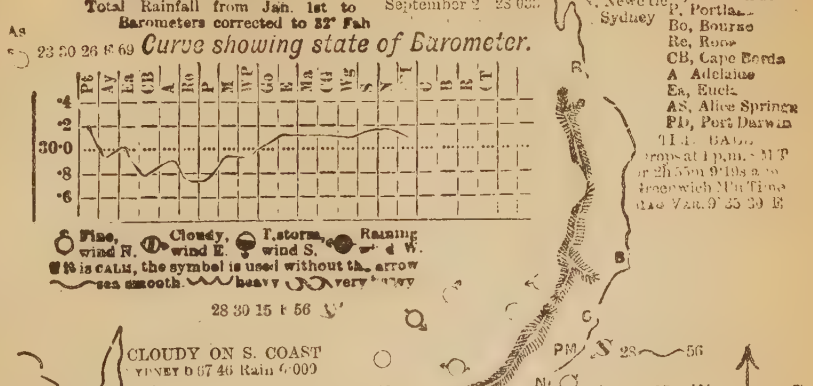
COMPILED from TELEGRAMS for 9 A.M., SEPT 9 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years . . . 48·
Average for 23 years from Jan. 1st to July 31 . . . 26·
Total Rainfall from Jan. 1st to September 2 . . . 28·
Barometers corrected to 32° Fah

Stations.	W'th	M'x	M.R	R'fn
Casino..	b	65	40	0 29
Tenterfild	n	53	35	0 21
Moree....	b	71	42	0
Grafton..	b	72	28	0 36
Gl'n Ian's	b	72	27	0 12
Inverell..	b	58	33	0
Bourke ..	c	71	46	0
Narrabri	b	62	39	0 04
Armidale	b	63	35	0 10
Bendem'r	b	53	31	0
Ganned'h	b	76	22	0
Coonam'le	c	69	32	0
Tamworth	b	74	31	0
Coonab'rn	b	67	26	0
P.Macqrie	b	57	48	0 20
Wilcannia	g	63	46	0
Murr'undi	b	62	39	0
Cassilia..	b	64	32	0
Mus'br'ok	n	70	57	0
Dubbo...	b	62	40	0
Menindie	g	4	44	0
Mudgee..	b	63	33	0
Maitland.	o	66	40	0
Hill End.	b	59	49	0
Newcastle	b	68	46	0 02
Orange..	n	55	3	0
Bathurst	n	59	27	0
18 57		6a		
Forb's	o	60	38	0
Mt Vict'ria	b	53	30	0
Condob'lin	g	54	29	0
Picton..	b	65	33	0
Carcoar..	n	52	33	0
Wentw'th	g	67	48	0
Young...	o	59	35	0
Wollgo'ng	b	72	44	0
Hay...	b	63	30	0
Moss Vale	a	56	34	0
Ruston...	g	75	44	0
Goulburn	b	59	39	0
Wagga...	b	58	32	0
Cape Geo.	c	62	41	0 14
Queanb'n	b	68	32	0
Deniliq'in	g	63	37	0
Moruya..	g	65	36	0 16
Xiandra..	b	54	40	0
Albury	b	66	32	0
B'd'lla	p	67	28	0 23
Cooma	n	59	2	0 02
Eden	b	62	43	0 01
Gabo	-	..	..	..



R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S, Sydney

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Prom
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Roma
CB, Cape Borda
A, Adelaide
Es, Eucla
AS, Alice Springs
PD, Port Darwin

T.I.I. GABO
rops at 1 p.m. - M.T
r 2h 55m 9·19s a.m.
Greenwich M'n Time
ne Var. 9° 55 50 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—September 3.

South Australia: Eucla, barometer rising, wind W.S.W., 40, threatening, rain 0·15; Adelaide, N.N.W., 3, rain 0·13; Cape Borda, S.W., 23, rain 0·24, squally, sea smooth. Victoria: Cloudy generally, with wind between N. and N.W., blowing lightly, except Wilson's Promontory, where it is squally; showery at Portland; 0·14 rain fell at Wilson's Promontory, and 0·10 at Cape Otway; smooth and moderate seas on coast Tasmania: Low Head, wind W.N.W., showery, barometer 29·42. New South Wales: Cloudy generally, N. and W., especially inland, with wind between N.E. and N.W.; light rain fell at Hay, Queanbeyan, Deniliquin, and Albury; see weather map; barometers have fallen about 31; frosty at Cooma; smooth sea on coast. 3 p.m. Observations.—Victoria: Barometers falling: Cape Otway, N., 48, threatening, rough sea, temperature 55·; Portland, W.N.W., 34, squally, passing showers, sea smooth, temperature 54·; Wilson's Promontory, W., 40, strong squalls, increasing gale, with rain and rough sea, temperature 49·. New South Wales: Wentworth, W., blowing gale and raining temperature 58·; Albury, N.W., moderate, fine, temperature 62·; Goulburn, W., fine, temperature 65·; Eden, E., fine, sea smooth, temperature 59·; Moruya, N.W., fine, sea moderate, temperature 71·; Cape George, N.E., 20, sea smooth, temperature 63.; Sydney, N.N.W., 30, hot wind, temperature 73·; Newcastle, N.W., fine, sea smooth; Port Macquarie, cloudy, sea mooth, temperature 59·; Menindie, N.E., gale, hot, temperature 62·. New Zealand, heavy N.E. gale at Russell, with barometer falling rapidly, moderate N.E. winds generally. State of Rivers: Murrumbidgee: At Wagga, 5 feet above summer level; at Hay, 6 feet 4 inches above summer level; at Balranald, 4 feet 9 inches above summer level. Murray: At Albury, 3 feet 8 inches above summer level; at Euston, 8 feet 4 inches above summer level. Darling: At Wentworth, 7 feet 8 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEPT. 3 1891, with NOTES to 9 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10h. 4m 50·81s *E*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to July 31 . . . 36·193
Total Rainfall from Jan. 1st to September 3 28·033
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing State of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth heavy very

14 29 80 F 64

CLOUDY IN VICTORIA

DEW b 61 50 Rain 0·009

42 20 45 F 53

14 29 78 F 51

14 29 79 F 55

Stations.	W'th	W'x	M'x	R'in
Esino...	b	78	7	0
Winterfild	b	63	33	0
Moree....	b	74	47	0
Grafton...	b	72	41	0
Ft'n Dun's	b	72	29	0
Deverell...	b	61	32	0
Burke ...	g	73	56	0
Carrabri	b	67	43	0
Armidale	b	64	32	0
Tenterfield	b	65	36	0
Tenn'd'h	g	76	35	0
Bonam'le	c	68	43	0
Tamworth	c	71	34	0
Bonab'rn	g	68	33	0
Macquarie	c	63	44	0
Wilcannia	b	74	51	0
Murr'undi	u	61	46	0
Wastlis...	u	65	49	0
Ds'br'ok	g	66	44	0
Hubbo...	b	63	46	0
Menindie	u	70	43	0
Bridgee	u	76	14	0
Maitland.	c	[illegible]	46	0
Hill End.	u	59	...	0
Newcastle	g	69	47	0
Orange.	b	53	36	0
Bathurst	b	63	36	0
		Ea		
Corb's	b	62	40	0
Ft Vict'ria	b	5	36	0
Indob'lu	b	64	34	0
Acton..	-	61	39	0
Barcoar..	b	55	[illegible]	0
Bentw'th	o	64	40	0
Boung...	f.	6	55	0
Wolgo'ng	-	..	..	..
Bay...	b	66	36	0 06
Moss Vale	b	6	41	0
Muston...	b	6	35	0
Moufburn	b	64	41	0
Wagga...	b	58	32	0
Cape Geo.	b	0	42	0
Queanb'n	b	60	37	0 0
Cunilig'n	o	60	41	0 02
Koruya..	b	64	41	0
Sandra...	g	58	37	0

Albury	b	63	41	0 10
B'd'lla	b	63	3	0
Cooma	n	62	51	0
Eden	b	56	46	0
Gabo	-	..	..	..

WO, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Bowen
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
Sydney

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG VAR. 9° 35 30 E

Barometers fallen about 0·31 in N.S.W. For notes to pilots see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—September 5.

Western Australia: Fine weather, light S. and S.S.W. winds. South Australia: Cloudy weather on coast, but clearing inland; winds northerly, fresh on coast, sea moderate; barometers rising. Port Augusta, S.S.E., 13, cloudy. Rain—Adelaide, 0·720; Borda, 0·170; Robe, 0·050. Victoria: Cloudy and threatening, strong S.W. winds and rough sea round coast; barometers rising. Rain—Melbourne, 0·180; Cape Otway, 0·680; Wilson's Promontory, 0·030; Omeo, 0·040; Horsham, 0·190; Portland, 0·020. New South Wales: Fine and clear up N. and inland to W.; cloudy on coast near Sydney and inland to S.W. (for particulars see map); winds fresh from S.W.; barometers rising up N. of Sydney, sea smooth. 3 p.m. observations.—Victoria, barometers rising. Melbourne, S.W., 13, fine, temperature 52°; Portland, W.S.W., 23, cloudy, sea smooth, temperature 53°; Cape Otway, W., 13, cloudy, sea rough, temperature 51; Wilson's Promontory, S.W., 23, cloudy, rough sea, temperature, 49°. New South Wales: Deniliquin, S.W., 28, cloudy, temperature 60°; Albury, S.W., moderate, cloudy, temperature 58°; Goulburn, W., like rain, temperature 58°; Forbes, S.W., fine, temperature 56°; Eden, S.W., 42, fine, light sea, temperature 52°; Sydney, S.S.W., 14, cloudy, smooth sea, temperature 56°; Newcastle, W.N.W., fine, smooth sea; Port Macquarie, N.E., 42, fine, smooth sea, temperature 65°. New Zealand: On Sunday storm centre passing the Bluff; strong N.W. winds generally; to-day barometer at Wellington 29·40; at the Bluff, 29·00; threatening weather. From the telegrams to-day it will be seen that light rains have fallen in Victoria and Southern parts of this colony, and that the storm centre has now passed Australia and making itself felt in New Zealand. Rivers.—Murrumbidgee: At Wagga, 4 feet 6 inches above summer level; at Hay, 5 feet 3 inches above summer level; at Balranald, 6 feet 3 inches above summer level. Murray, at Albury, 3 feet 10 inches above summer level; at Euston, 8 feet 8 inches above summer level. Darling, at Wentworth, 7 feet 11 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., Sep 5 1880, with NOTES to 3 P.M.

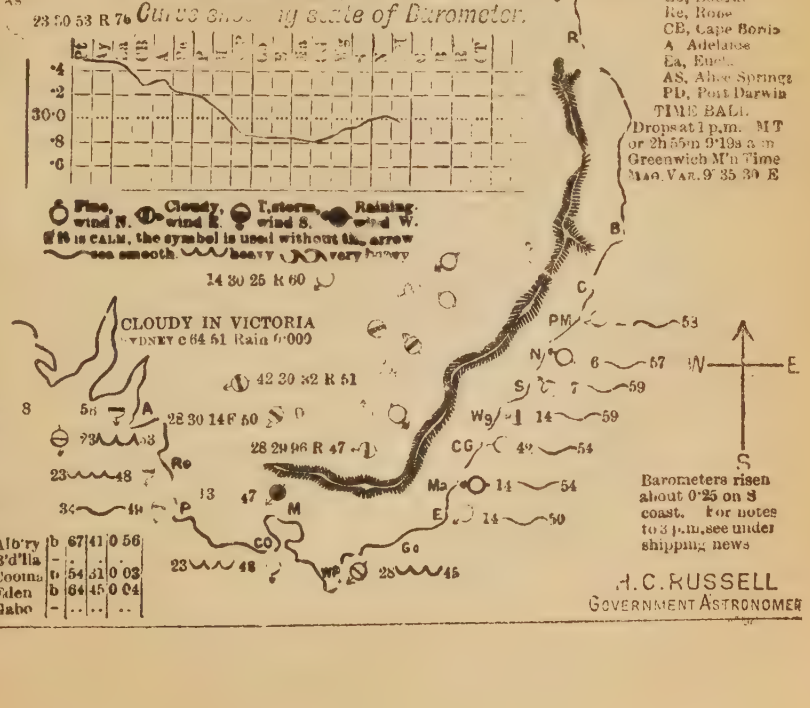
Sydney Observatory.

Lat. 33° 51′ 41″ S ; *Long* 10*h.* 4*m.* 50·21*s* E

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to September 5 28·033
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W'th	M'x	Min	R'in
Casino	b	79	44	0
Tenterfield	b	70	36	0
Moree	b	71	46	0
Grafton	b	72	68	0
Gl'n Ian's	b	72	26	0
Inverell	b	71	36	0
Bourke	b	70	46	0
Narrandi	b	77	42	0
Armidale	b	64	36	0
Bundem r	b	70	31	0
Grafton'd'n	b	76	33	0
Coonam'le	b	65	40	0
Tamworth	b	68	37	0
Coonab'rn	b	61	33	0
P.Macqrie	b	72	47	0
Wilcannia	b	73	42	0
Murr'undi	b	62	45	0
Cossilis	b	69	47	0
Mus'br'ok	b	65	46	0
Dubbo	b	63	43	0
Menindie	b	73	41	0
Mudgee	b	64	44	0
Maitland	b	64	49	0
Hill End	b	65	..	0
Newcastle	b	68	50	0
Orange	b	58	39	0·10
Bathurst	b	66	41	0
0 58	Sa			
Forb's	b	66	40	0·15
Mt Vict'ria	b	61	37	0
Condob'lin	b	55	34	0
Picton	g	67	32	0
Carcoar	b	49	42	0·30
Wentw'th	b	63	47	0·02
Young	b	58	45	0·14
Wollgo'ng	b	68	52	0
Hay	b	69	42	0
Moss Vale	b	60	41	0
Euston	b	60	50	0·12
Goulburn	b	59	39	0·19
Wagga	b	68	42	0
Cape Geo.	b	69	46	0·16
Queanb'n	b	70	40	0·10
Deniliq'in	b	69	42	0·02
Moruya	b	67	44	0
Kiandra	b	30	5	0

Albury	b	67	41	0·56
B'd'lla	-	..	..	..
Cooma	b	54	31	0·03
Eden	b	64	45	0·04
Gabo	-	..	..	..



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Howe
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Bonia
A, Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL.
Drops at 1 p.m. M T or 2h 55m 9·198 s in Greenwich M'n Time
MAG. VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 6.

Western Australia: Fine, with light northerly and easterly winds and smooth sea. South Australia: Cloudy round coast, barometers rising, sea smooth; winds light from S. Rain: Eucla, 0·040; Borda, 0·080; Streaky Bay, calm, fine; Port Augusta, S.W., 13, fine; Port Darwin, S.E., 18, fine; Daly Waters, Tennant's Creek and Powell's Creek, S.E., 23, fine. Victoria: Raining round coast, winds fresh from W., sea rough, barometers falling in E., rising in W. of colony; heavy showers with hail and thunderstorm at Wilson's Promontory at 6.10 a.m. Rain: 0·670, ditto at Melbourne, 0·040; Cape Otway, 0·080; Portland, 0·020. New South Wales: Fine, clear weather throughout, sea smooth, barometers rising, winds fresh from S.W.; calm and frosty inland. Queensland: Cooktown, fine, strong S.E. wind, barometer 30 080. 3 p.m. Observations.—Victoria, barometers steady: Melbourne, S.S.W., 18, fine, temperature 51·; Cape Otway, S., 40, squally, with rain, moderate sea, temperature 50·; Portland, S.S.W., 28, cloudy, smooth sea, temperature 54·; Wilson's Promontory, W.S.W., 28, squally, rough sea, temperature 51·. New South Wales: Albury, S.W., showery, temperature 55·; Forbes, calm, fine, temperature 51·; Sydney, W., 28, fine, temperature 63·; Menindie, S.W., fine, temperature 60·; Goulburn, W., 56, fine, temperature 54·; Eden, W.S.W., 28, fine, light sea, temperature 56·; Cape George, N.E., 11; Newcastle, W., fine, no sea. New Zealand: Fine generally, with strong N.W. winds; barometers rising. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 6 inches above summer level; at Hay, 5 feet 4 inches above summer level; at Balranald, 7 feet 2 inches above summer level. Murray: At Albury, 4 feet 7 inches above summer level; at Euston, 8 feet 8 inches above summer level. Darling: At Wentworth, 8 feet above summer level; at Pooncarie, Menindie, and Wilcannia summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEPT 6 1884 with NOTES to 8 P.M.

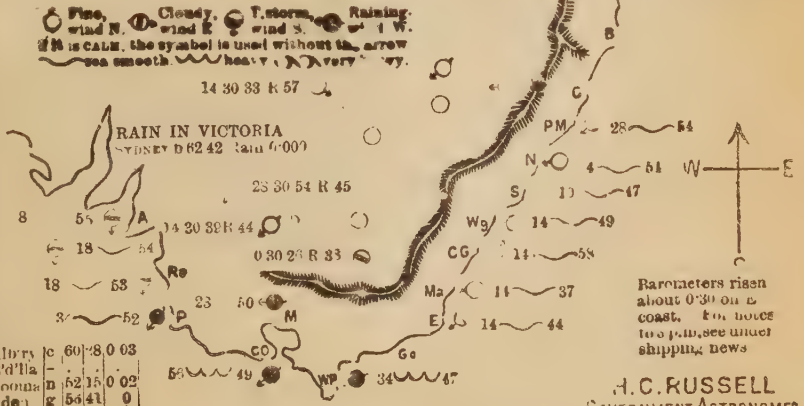
Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m* 50 *s* *E*

Average Annual Rainfall for 22 years	.....	51·461
Average for 23 years from Jan. 1st to July 31	..	36·193
Total Rainfall from Jan 1st to September 6		28·033

Barometers corrected to 32° Fah

Curve showing state of Barometer.



Stations	Wt	M'x	M.n	R'fin
Casino..	–	..	..	–
Tenterfild	b	66 36		0
Moree....	b	73 48		0
Grafton...	b	72 49		0
Gl'n Inn's	b	72 28		0
Inverell	b	63 35		0
Bourke ..	b	72 46		0
Narrandi	b	68 44		0
Armidale	b	62 30		0
Bendem'r	b	63 42		0
Canned'b	–	..	..	..
Coonam'le	b	63 32		0
Tamworth	b	71 30		0
Coonab'rn	n	66 26		0
P.Macqrie	b	69 46		0
Wilcannia	b	65 41		0
Murr'undi	b	6 38		0
Cassilis.	b	6 30		0
Mus'br'ok	n	68 32		0
Dubbo...	b	63 42		0
Menindie	b	65 38		0
Mudgee	n	67 29		0
Maitland.	n	6 41		0
Hill End.	b	60 ..		0
Newcastle	b	70 42		0
Orange.	–	..	..	..
Bathurst	b	52 26		0·10
0 58		Ea		
Forb's	n	61 41		0
Mt Vict'ria	n	47 27		0·02
Condob'lin	b	57 25		0
Picton..	b	66 22		0
Carcoar	n	49 32		0·21
Wentw'th	n	63 37		0
Young...	n	55 33		0·48
Wollgo'ng	b	67 33		0·10
Hay...	b	69 30		0
Moss Vale	b	71 29		0·42
Euston...	b	65 28		0
Goulburn	b	54 23		0
Wagga...	b	55 29		0 11
Cape Geo.	b	6 42		0
Queanb'n	b	55 29		0·93
Deniliq in	o	59 29		0 08
Moruya..	b	67 31		0
Kiandra..	b	29 6		0

Albury	c	60	28	0 03
B'd'lla	–	..	..	..
Coonamble	n	52	15	0 02
	g	56	41	0
Gabo	–	..	..	..

METEOROLOGICAL REPORTS.—September 7.

Western Australia: Fine clear weather, with light W. winds
nd calm; very smooth sea off King George's Sound. South
ustralia: Fine clear weather throughout the colony; barometers
gh and still rising slightly, sea smooth, winds light from east,
rain; Port Augusta, N.E., 13, fine; Streaky Bay, E.S.E, 18, fine;
ort Darwin, S.E., 18, fine; Daly Waters, S.E., 23, fine. Victoria:
loudy round coast, sea moderate, barometers high and rising,
inds fresh from W. Rain: Melbourne, 0·030; Otway, 0·040;
meo, S.W., 8, fine, rain 0·090; Horsham, S.E., 8, fine; Echuca,
, 28, fine. New South Wales: Cloudy weather down coast, sea
nooth at generality of ports, rising at Cape George, barometers
gh, and rising winds fresh from S.W.; light rain at Nel-
n's Bay, Maitland, Newcastle, Sydney, and Cape St. George,
or amounts, &c., see map); fine clear weather inland. Queens-
nd: Cooktown, clear weather, squally from S.E., 40 miles per
ur. 3 p.m. Observations.—Victoria: barometers high and
eady; Melbourne, S.S.W., 8, fine, temperature 55·; Cape Otway,
., 8, fine, sea moderate, temperature 53·; Portland, S., 18,
udy, sea smooth, temperature 55·; Wilson's Promontory, W.,
, cloudy, sea moderate, temperature 51·. New South Wales:
bury, calm, fine, temperature 56·; Moruya, S.E., 28, fine, sea
derate, temperature 57·; Sydney, S., 14, cloudy,
moderate, temperature 54·; Port Macquarie, S.S.W.,
squally, sea smooth, temperature 60·; Deniliquin, calm,
e, temperature 62·; Goulburn, calm, fine, temperature
; Cape George, S.S.E., 56, cloudy, sea moderate,
perature 55·; Newcastle, S., showery, sea moderate. New
land: Heavy S.W. gale generally, with thunderstorms and
l, and rain 0·66, with the change to S.W. at 2 a.m.; baro-
ers 30·00 in north, 29·7 at Wellington and Bluff. State of
ers.—Murrumbidgee: At Wagga, 4 feet 6 inches above summer
l; at Hay, 5 feet above summer level; at Balranald, 7 feet
nches above summer level. Murray: At Albury, 5 feet 4
es above summer level; at Euston, 9 feet above summer
l. Darling: At Wentworth, 8 feet 1 inch above summer
l; at Pooncarie, Menindie, and Wilcannia, summer level.

Stations	F't	M'x	M'n	R'in
asino..	–	.	.	..
enterfild	b	62 27		0
loree....	b	73 44		0
rafton..	b	73 42		0
ll'n lun's	b	72 27		0
weren..	–	.	..	..
Bourke ...	b	69 44		0
arrabri	b	69 30		0
armidale	b	57 31		0
Bendem'r	b	70 45		0
Banned'h	–	.	..	.
Boonam'le	–	.	.	..
Camworth	b	68 29		0
Bonab'rn	b	63 51		0
C.Macqrie	q	64 48		0
Vilcannia	b	67 42		0
Curr'undi	g	58 43		0
D'ssilia.	b	59 29		0
Dus'br'ok	n	66 32		0
Dubbo...	b	6 39		0
Eidenindie	b	6 40		0
Eudgee	o	69 29		0
Gaitland.	p	61 47	0	0 9
Gfill End.	b	66		0
Newcastle	p	66 48	0	0 9
Orange..	n	7 31		0
Bathurst	b	53 27		0
18 58		Ea		
Port'orb's	b	67 40		0
Ult Vict'ria	g	47 30		0
Londob'lin	–	.	.	0
Pieton..	g	60 32		0
Parcoar..	b	58 32		0
Penrit'th	b	64 37		0
Young...	o	56 25		0
Wollgo'ng	c	58 47		0
Bay...	b	61 35		0
Moss Vale	b	51 37		0
Euston...	b	88 36		0
Goulburn	b	54 25		0
Wagga...	a	56 31		0
Cape Geo.	p	65 39	0	0
Queanb'n	b	6 31		0
Deniliq'in	b	62 34		.
Koruva..	–	.	..	0
Alandra..	b	46 20		0

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEP'T 7 1881, with NOTES to 8 P.M.

Sydney Observatory

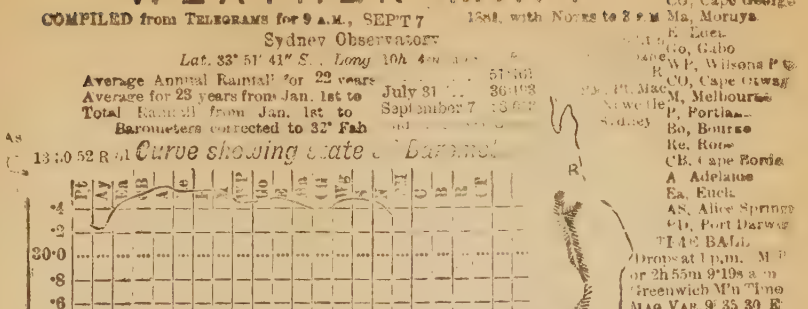
Lat. 33° 51′ 41″ *S.*, *Long* 10h 4m [illegible]

Average Annual Rainfall for 22 years [illegible] 51·561

Average for 23 years from Jan. 1st to July 31 [illegible] 36·193

Total Rainfall from Jan. 1st to September 7 [illegible]

Barometers corrected to 32° Fah [illegible]



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 8.

Western Australia: Fine clear weather; light southerly winds. South Australia: Fine clear weather throughout; barometers falling rapidly; winds light from N. and S.E.; sea smooth; very fine inland. Victoria: Fine clear weather; barometers falling; sea moderately rough; wind fresh from N. and N.W.; no rain; Horsham, fine, N.E., 13; Echuca, N., 28, fine; low heads. Tasmania: W., 13, fine; barometers 30·190. New South Wales: Fine at majority of stations, cloudy on coast N. of Newcastle and inland to N.W., near Inverell, Tenterfield, and Bendemeer; smooth sea, light westerly winds and rising barometers on coast; showery at Port Macquarie. (See weather map.) Queensland: Rockhampton, cloudy, with light S.E. wind; moderate S.E. swell reported from Cape Moreton Heads.. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, N., 18, fine, temperature 65°; Portland, W.N.W., 34, fine, moderate sea, temperature 62°; Cape Otway, S.S.W., 8, cloudy, rough sea, temperature 59°; Wilson's Promontory, N.E., 13, fine, smooth sea, temperature 58°. New South Wales: Wentworth, calm, fine, clear, temperature 62°; Albury, calm, fine, clear, temperature 58°; Goulburn, N., fine, temperature 60°; Forbes, calm, fine, temperature 59°; Eden, N.E., 20, fine, sea smooth, temperature 58°; Moruya, N.E., 30, fine, rough sea, temperature 61°; Cape George, N.E., sea moderate from E., temperature 60°; Sydney, N.E., 20, fine, clear, temperature 60°; Newcastle, N.E., fine, sea smooth; Port Macquarie, S.E., 14, cloudy, smooth sea, temperature 62°; Menindie, N., light, fine, hot, temperature 62°. State of Rivers—Murrumbidgee: At Wagga, 4 feet 6 inches above summer level; at Hay 5 feet above summer level; at Balranald, 7 feet 2 inches above summer level. Murray: At Albury, 5 feet 2 inches above summer level; at Euston, 9 feet 4 inces above summer level. Darling: At Wentworth, 8 feet 3 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEPT 8 1881, with NOTES to 8 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years . . . . . 51·461
Average for 23 years from Jan. 1st to July 31 . . . 36·193
Total Rainfall from Jan. 1st to September 8 28·077
Barometers corrected to 32° Fah and Mean Sea Level.

Stations.	A.	W.	M.	R'fall
Casino..	c	70	48	0 11
Tenterfield	g	60	49	0
Moree....	–	..	..	..
Grafton...	g	63	52	0
Gl'n Innes	g	71	27	0
Tamworth	g	63	29	0
Bourke..	b	63	47	0
Narrabri	–	..	..	..
Armidale	g	58	30	0
Bendem'r	g	67	40	0
Grafton	–	..	..	..
Coonamble	–	..	..	..
Tamworth	b	71	37	0
Coonabarn	b	67	29	0
P.Macqrie	p	62	50	0 12
Wilcannia	b	68	42	0
Murr'undi	b	55	45	0
Cassilis	b	60	43	0
Mus'br'ok	b	61	49	0
Dubbo...	b	62	46	0
Menindie	b	63	33	0
Mudgee.	b	73	43	0
Maitland.	b	60	46	0
Hill End.	b	65	..	0
Newcastle	b	65	49	0 21
Orange..	n	56	7	0
Bathurst	b	58	34	0
Forbes	–	..	..	..
Mt Vict'ria	b	49	34	0
Condob'lin	–	..	..	..
Victon..	c	68	34	0
Carcoar.	g	57	43	0
Wentw'th	b	69	36	0
Young...	–	..	..	..
Wollgo'ng	c	68	45	0
Hay...	–	..	..	..
Moss Vale	b	51	32	0
Euston...	b	74	50	0
Goulburn	b	62	27	0
Wagga...	b	58	35	0
Cape Geo.	b	57	40	0
Queanb'n	b	75	36	0
Deniliq'in	b	61	33	0
Moruya..	b	64	38	0
Kiandra..	b	57	5	0
Albury	b	61	32	0
B'd'Ila	n	66	27	0
Cooma	n	63	20	0
Eden	b	58	40	0
Gabo	–	..	..	..

As 0 50 44 R 53

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy

42 30 32 R 59

FINE GENERALLY.
SYDNEY 0 57 46 Rain 0·024

28 30 45 F 51

14 30 46 R 51

14 30 41 F 49

8 57 A 14 30 46 R 51 0

18 56 Ro

18 5

18 57

23 55 P M

13 52 CO

WP 13 50

Go

E 14 47

Ma 14 43

CG 28 53

Wg 14 67

S 4 50

N 3 57

PM 14 54

C

B

R 65

Barometers fallen about 0·15 on S coast. For notes to 8 p.m. see under shipping news

W E S

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG VAR. 9° 35 30 E

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 9.

Western Australia: Perth, fine, with light S.E. wind, rain 0·150; Albany, showery, light N. wind, smooth sea. South Australia: Fine clear weather prevails both on coast and inland, sea smooth: barometers steady and falling, wind light from N, and N.E.; Streaky Bay, N.E., 3, dull; Port Augusta, N., 13, fine; Daly Waters, E., 18, fine; Port Darwin, S.E., 8, cloudy. Victoria: Fine at Melbourne and Portland, cloudy at Wilson's Promontory and Cape Otway; moderate sea, falling barometers, and light north-westerly winds round coast; no rain. Low Heads, Tasmania, W., 18, fine, 29.840. New South Wales: Fine weather south of Cassilis, cloudy up near Queensland border; sea smooth, barometers falling, wind light from W.; rain, Moree, 0·020; Moruya, 0·020. Queensland: No reports received. 3 p.m. Observations.—Victoria: Melbourne, N.W., 13, cloudy, temperature 69·; Portland, S.E., 8, cloudy, slight sea, temperature 64·; Cape Otway, N.W., 3, fine, rather rough sea, temperature 64·; Wilson's Promontory, W.N.W., 13, cloudy, smooth sea, temperature 52·. New South Wales: Wentworth, N., fine, temperature 64·; Deniliquin, calm, fine, temperature 69·; Albury, N., light, fine, temperature 63·; Goulburn, W.N.W., fine, temperature 65·; Forbes, calm, cloudy, temperature 56·; Eden, N.E., 14, fine, smooth sea, temperature 60·; Moruya, N.E., 20, fine, moderate sea, temperature 64·; Cape George, N., 14, fine, smooth sea, temperature 65·; Sydney, N.E., 14, fine, smooth sea, temperature 67·; Newcastle, NE., fine, smooth sea; Port Macquarie, N.N.E., 30, cloudy, smooth sea, temperature 64·; Menindie, calm, close, hazy, temperature 65·. New Zealand: Moderate S.W. winds generally, with fine weather. State of Rivers—Murrumidgee: At Wagga, 5 feet above summer level; at Hay, 5 feet above summer level; at Balranald, 7 feet above summer level. Murray: At Albury, 4 feet 9 inches above summer level; at Euston, 9 feet 8 inces above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

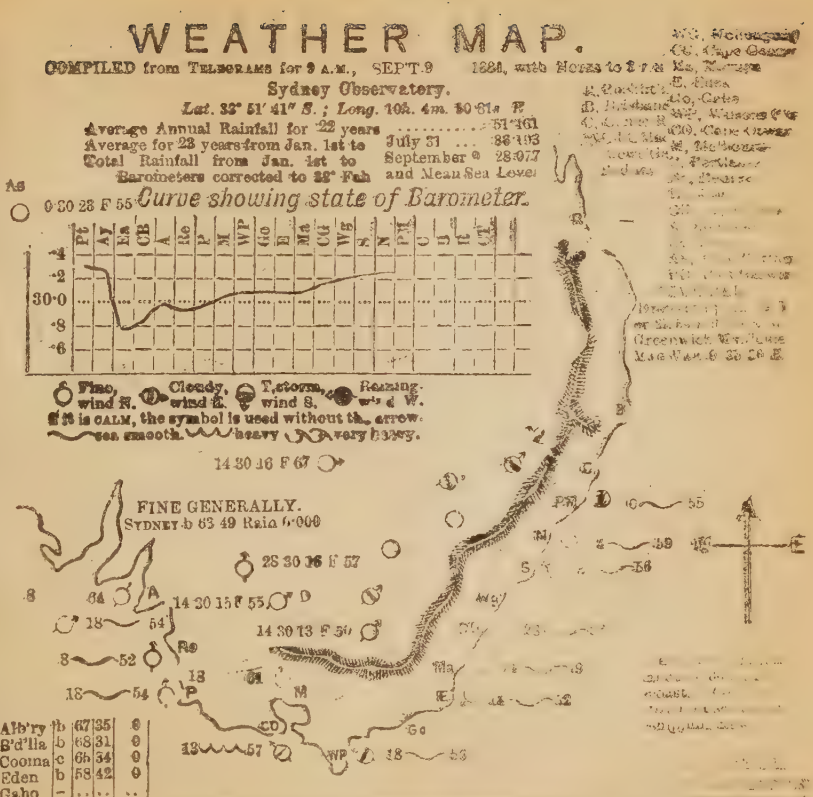
COMPILED from TELEGRAMS for 9 A.M., SEPT. 9 1881, with NOTES to 8 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S. ; *Long.* 10h. 4m. 50·61s E.

Average Annual Rainfall for 22 years ..... 51·161
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to September 9 28·077
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W'th	M'x	M.n	R'in
Casino..	c	72	53	0 02
Tenterfild	b	51	43	0
Moree....	b	75	57	0
Grafton..	g	73	52	0
Gl'n Inn's	g	71	23	0
Inverell..	g	64	30	0
Bourke ..	b	74	54	0
Narrabri	-	..	..	..
Armidale	g	57	31	0
Bendem'r	g	72	47	0
Gunned'h	g	74	48	0
Coonam'le	c	73	52	0
Tamworth	c	77	46	0
Coonab'rn	b	68	43	0
P.Macqrie	c	64	49	0
Wilcannia	b	71	41	0
Murr'undi	-	..	..	..
Cassilis..	b	67	35	0
Mus'br'ok	b	70	44	0
Dubbo...	b	64	47	0
Menindie	b	71	40	0
Mudgee..	b	71	42	0
Maitland.	b	66	48	0
Hill End.	b	66	..	0
Newcastle	b	70	49	0
Orange..	n	56	36	0
Bathurst	b	65	55	0
⊕ 28 61		Ea		
⊕ Forbes	-	..	..	..
Mt Vict'ria	b	57	35	0
Condob'lin	c	66	32	0
Picton..	b	64	36	0
Carcoar..	b	60	40	0
Wentw'th	b	73	39	0
Young...	b	63	39	0
Wollgo'ng	-	..	..	..
Hay....	b	71	42	0
Moss Vale	b	60	41	0
Euston...	b	76	55	0
Goulburn	b	65	35	0
Wagga...	b	64	44	0
Cape Geo.	b	64	45	0
Queanb'n	b	71	35	0
Deniliq'in	b	70	40	0
Moruya..	m	62	42	0 02
Kiandra..	o	54	17	c
Alb'ry	b	67	35	0
B'd'lla	b	68	31	0
Cooma	c	66	34	0
Eden	b	58	42	0
Gabo	-	..	..	..



METEOROLOGICAL REPORTS.—SEPTEMBER 10.

Western Australia: Barometers high, 29·37, and rising, light easterly winds. South Australia: Fine, clear at Adelaide, moderate, depression at Streaky Bay, barometer 29·76, and falling, with increasing southerly winds; raining at Port Augusta; fine and clear inland. Victoria: Fine round coast, with light N.N.E. and W.N.W. winds; barometers falling, sea smooth; Omeo, fine, light E.N.E. wind; Echuca, fine, light S. wind. Low Heads, Tasmania: Fine, light, N.N.W. wind, low barometer. New South Wales: Cloudy weather prevails, and barometers are still falling on the coast, the sea is smooth, and the wind light from W.; raining at Bendemeer, Walcha, Mount Victoria, Carcoar, and Kiandra; see map. Queensland: Rockhampton, fine, wind S.E., barometer 30·090. 3 p.m. Observations.—Victoria: Barometers steady; Cape Otway, S.W.; 8, cloudy, moderate sea, temperature 56°; Portland, W.S.W., 13, cloudy, smooth sea, temperature 59°; Wilson's Promontory, W., 13, fine, smooth sea, temperature 61°. New South Wales: Albury, calm, cloudy, close; Goulburn, calm, fine, temperature 66°; Eden, N.E., fine, sea smooth, temperature 61°; Moruya, S.W., gloomy, sea moderate; Cape George, N., 10, like rain, sea smooth, temperature 64°; Sydney, N.N.W., 5, fine, warm, temperature 68°; Port Macquarie, N.E., fine, sea smooth, temperature 66°; Condobolin, N.E., fine, temperature 68°; Newcastle, S., fine, no sea. New Zealand: Fine generally, with strong S.W. winds, except at Wellington, where a moderate N.W. wind is blowing. State of Rivers—Murrumidgee: At Wagga, 4 feet 11 inches above summer level; at Hay, 5 feet above summer level; at Balranald, 7 feet above summer level. Murray: At Albury, 4 feet 6 inches above summer level; at Euston, 10 feet 4 inches above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEPT 10 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

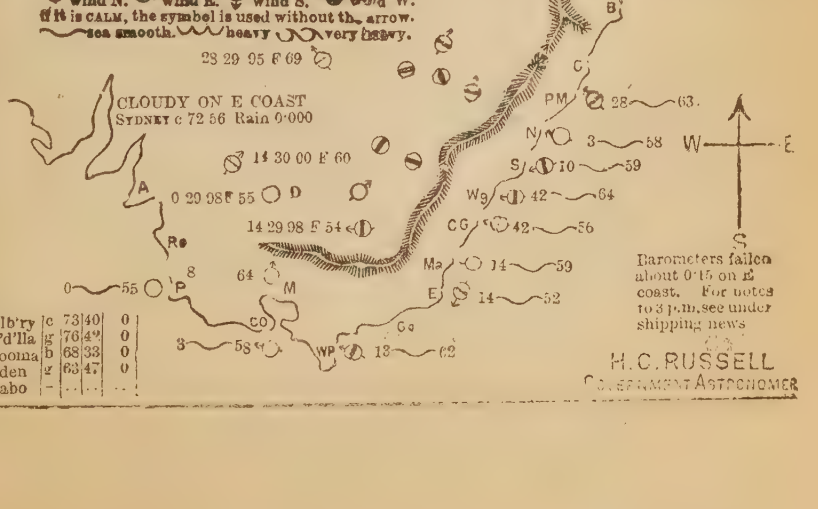
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to September 10 28·077.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W'th	M'x	M'n	R'in
Casino..	b	79	45	0
Tenterfild.	b	58	31	0
Moree....	g	74	62	0
Grafton..	b	71	52	0
Gl'n Inn's	g	60	26	0·06
Inverell..	g	65	50	0
Bourke ..	c	81	63	0
Narrabri	b	72	56	0
Armidale	g	58	35	0
Bendem'r	r	71	42	0·21
Gunned'h	c	78	52	0·03
Coonam'le	c	78	56	0
Tamworth	c	77	46	0
Coonab'rn	g	73	45	0
P.Macqrie	g	68	53	0
Wilcannia	c	75	45	0
Murr'undi	g	64	51	0
Cassilis..	g	78	65	0
Mus'br'ok	b	72	49	0
Dubbo...	b	69	47	0
Menindie	g	74	41	0
Mudgee..	g	71	48	0
Maitland.	b	70	50	0
Hill End.	c	62	..	0
Newcastle	b	69	52	0
Orange..	g	61	45	0·19
Bathurst	g	62	43	0·21
		Ea		
Forbes	b	63	42	0
Mt Vict'ria	p	60	44	0·12
Condob'ln	–	..	..	..
Picton..	–	..	..	.
Carcoar..	r	60	42	0·30
Wentw'th	g	70	42	0
Young...	c	63	49	0
Wollgo'ng	c	78	55	0
Hay....	b	75	51	0
Moss Vale	b	64	47	0
Euston...	b	81	38	0
Goulburn	g	69	44	0
Wagga...	r	72	47	0
Cape Geo.	g	66	50	0
Queanb'n	g	70	42	0
Deniliq'in	b	75	41	0
Moruya..	m	67	48	0
Kiandra..	b	73	12	0·30
Alb'ry	c	73	40	0
B'd'lla	g	76	4[illegible]	0
Cooma	b	68	33	0
Eden	g	63	47	0
Gabo	–	..	..	..

As

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 12.

Western Australia: Fine clear weather, light S.E. wind, at Perth, and northerly at Albany, sea smooth. South Australia: Weather cloudy and threatening; heavy rains fell yesterday about Port Augusta, and heavy squalls of wind and dust in interior. Rain—Eucla, 0·010; Streaky Bay, 0·060. Moderate sea, rising barometers, and S.E. winds on coast; fine along overland telegraph line. Victoria: Cloudy all round coast, wind strong from S.E., sea moderate, barometers rising. Rain—Melbourne, 0·010. Low Heads, Tasmania: Barometer, 29·98; wind, S.E., 18, fine. New South Wales: Cloudy throughout colony, heavy rains have fallen since Saturday. For measurements, &c., and weather at each station, see map. Cloudy and raining on coast; sea rising, barometers falling, wind fresh from S.W. Queensland: Rockhampton, cloudy, wind N.W. 3 p.m. Observations.—Victoria: Barometers risen 0·18. Melbourne, S.E., 18, fine, temperature 58·; Cape Otway, S.E., 18, fine, sea smooth, temperature 58·; Portland, S.E., 28, misty, smooth sea, temperature 54·; Wilson's Promontory, E.S.E., 23, cloudy, temperature 54·. New South Wales: Albury, E., light, cloudy, temperature 61·; Goulburn, S., dull, temperature 58·; Forbes, N.E., cloudy, temperature 61·; Eden, S., 28, showery, light sea, temperature 53·; Moruya, S., 42, raining, rough sea, temperature 49·; Cape George, S., 56, thick rain, heavy sea, temperature 56·; Sydney, S.S.W., 42, cloudy, temperature 57·; Newcastle, S.E., fine, smooth sea; Port Macquarie, S.E., 14, fine, smooth sea, temperature 68·. New Zealand: Heavy S.W. gale at Bluff on Sunday, and other parts N.W. gale and thunderstorms. To-day fine, with strong N.W. gale generally; barometer 29·50 at Bluff, 29·80 at Wellington. South Australia: Very bad weather on Sunday, heavy squalls of wind and dust. No rain south of Burra, but heavy about Port Augusta, over 2 inches at Hawker. The depression over South Australia on Saturday is over Port Macquarie to-day, with strong southerly to S.E. winds and general rain. State of Rivers—Murrumidgee: At Wagga, 4 feet 11 inches above summer level; at Hay, 5 feet above summer level; at Balranald, 7 feet above summer level. Murray: At Albury, 6 feet 8 inches above summer level; at Euston, 10 feet 10 inches above summer level. Darling: At Wentworth, 9 feet above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEP'T 12 1881, with NOTES to 3 P.M.

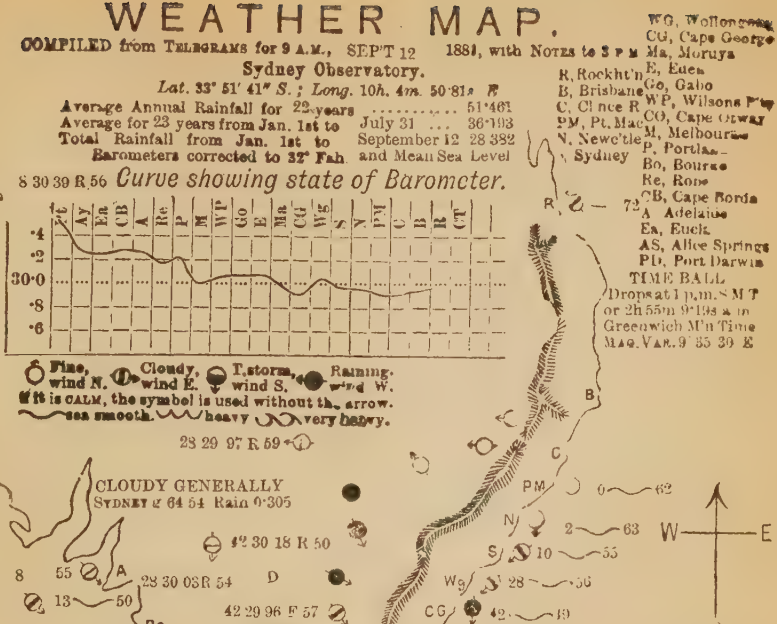
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to September 12 28·382
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	Wt	M'x	M.n	R'in
Casino..	b	75	56	0 28
Tenterfild	b	70	50	1 50
Moree....	b	65	54	1 24
Grafton..	b	66	51	0 18
Gl'n Inn's	b	69	28	2 00
Inverell..	o	69	47	1 80
Bourke ..	g	72	55	1 04
Narrabri	b	69	51	0 07
Armidale	b	63	31	0 74
Bendem'r	g	65	40	1 15
Gunned'h	r	69	50	1 24
Coonam'le	b	72	53	0 45
Tamworth	c	69	49	0 18
Coonab'rn	p	68	48	0 25
P.Macqrie	b	65	55	0 50
Wilcannia	r	68	52	0 38
Murr'undi	p	62	56	1 38
Cassilis..	g	68	52	0 31
Mus'br'ok	b	65	52	0 06
Dubbo...	g	69	52	0 52
Menindie	g	63	46	1 37
Mudgee..	g	78	50	0 70
Maitland.	b	73	64	1 03
Mill End.	p	65	..	0 60
Newcastle	o	67	56	0 30
Orange..	g	63	46	0 15
Bathurst	g	66	47	0 76
18 59		Ea		
Forb's	p	60	40	1 03
Vict'ria	g	60	44	0 72
Condob'ln	g	56	44	0 66
Acton..	g	69	50	0 40
Narcoar..	g	60	50	0 95
Wentw'th	c	55	48	0 50
Young...	r	54	50	1 35
Collgo'ng	c	64	51	0 18
Bay....	–	..	..	..
Moss Vale	r	52	45	3 12
Huston...	g	52	44	2 09
Moulburn	g	54	39	0 43
Tagga...	r	65	49	1 06
Cape Geo.	r	65	46	1 17
Queanb'n	g	65	45	0 81
Deniliq'in	g	77	47	0 80
Moruya..	r	70	53	0 90
Sandra...	c	60	16	0 20
Alb'ry	c	74	43	0 37
B'd'lla	r	76	39	0 62
Cooma	r	53	34	0 60
Eden	r	56	48	0 35
Gabo	–	..	..	..

Curve showing state of Barometer.



METEOROLOGICAL REPORTS.—SEPTEMBER 13.

Western Australia: Fine, with light N.E. and N.W. winds; sea smooth, no rain; barometers low and falling. South Australia: Broken clouds round S. coast; sea smooth; barometers rising, wind light from N.N.E. and E.; barometers falling in west of colony, fine and clear inland; Streaky Bay, E., 13, fine; Port Augusta, S., 13; Daly Waters, E., 8, cloudy; Port Darwin, S.E., 18, fine. Victoria: Cloudy weather, but no rain; moderate sea, rising barometers, and fresh N.E. winds round coast; hoar frost at Melbourne; Echuca, E., 13, fine, barometer 30·33. Tasmania: Low Heads, N.E., 13, fine, barometer 30·39. New South Wales: Fine weather both on Northern and Southern borders, but still cloudy, and raining in centre of colony, with a heavy sea on coast between Port Macquarie and Moruya Heads, and a strong S.E. wind, with rain. (For measurements, &c., see weather map.) Barometers rising rapidly all over the colony. Queensland: Rockhampton: Fine weather, wind S.E.; Cooktown, cloudy, wind S.E., 8, barometer 30·07, temperature 79°. 3 p.m. Observations.—Victoria: Barometer is falling again; Melbourne, S.E., 13, fine, temperature 65°; Portland, E.S.E., 13, fine, moderate sea, temperature 54°; Cape Otway, E.S.E., 13, fine, moderate sea, temperature 54°; Wilson's Promontory, N.E., 34, squally, rough sea, temperature 55°. New South Wales: Wentworth, N.E., fine, temperature 60°; Albury, calm, fine, temperature 63°; Goulburn, S., dull, temperature 58°; Forbes, calm, cloudy, temperature 62°; Eden, E.S.E., 14, fine, light sea, temperature 56°; Moruya, S.E., 28, dull, moderate sea, temperature 50°; Cape George, S.S.E., 42, cloudy, heavy sea, temperature 61°; Sydney, S.E., 14, raining, moderate sea, temperature 57°; Newcastle, S.E., strong, stormy, heavy sea; Port Macquarie, E., 14, fine, smooth sea, temperature 65°; Menindie, N., fine, temperature 58°. New Zealand: Strong S.W. gale generally; at Taranaki and Timaru it is very heavy weather; rain is falling at Wellington. State of Rivers—Murrumbidgee: At Wagga, 5 feet 3 inches above summer level. Murray: At Albury, 6 feet 8 inches above summer level. Darling: At Wentworth, 9 feet 3 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

tions.	w't	M'x	M.	R'in
no..	b	82	46	0
terfild	b	64	45	0
ee....	b	70	53	0
fton..	b	83	40	0
Inn's	b	68	29	0
ereil..	–	..	..	..
rke ..	f	67	53	0
rabri	b	68	50	0 03
hidale	b	64	32	0 10
dem'r	b	70	45	0
ned'h	–	73	48	..
nam'le	–	..	..	..
nworth	b	69	41	0 04
nab'rn	o	66	42	0
acqrie	c	71	51	0 21
cannia	g	66	54	0 03
r'undi	k	61	50	0 13
ollis..	g	63	49	0 03
s'br'ok	r	70	50	0 39
bo...	c	69	49	0 32
hindie	g	61	50	0
lgee..	g	73	48	0 20
tland.	r	70	53	1 00
End.	c	63	..	0 34
vcastle	q	69	53	1 57
nge..	c	57	41	0 12
hurst	g	55	45	0 10
18 57		Ea		
forb's	c	68	44	0
Vict'ria	r	49	39	0 25
dob'ln	c	52	40	0
on..	g	64	49	0 17
coar..	b	67	44	0 24
ntw'th	b	62	49	0
ing...	b	55	40	0
llgo'ng	p	77	50	0 40
.....	g	68	46	0
s Vale	r	51	42	0 26
ton...	b	65	46	0 04
dburn	g	50	40	0
gga...	c	59	46	0 05
e Geo.	p	64	47	1 84
anb'n	c	51	42	0 42
iliq'in	q	66	43	0
uya..	g	64	48	0 30
ndra..	g	43	12	0 10

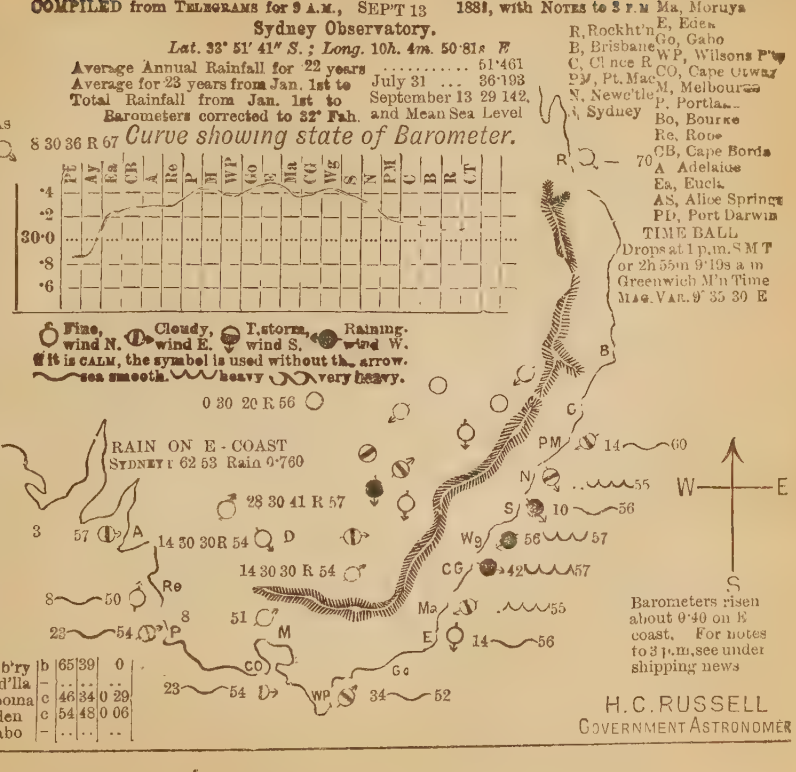
WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEP'T 13 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to September 13 29 142.
Barometers corrected to 32° Fah. and Mean Sea Level



METEOROLOGICAL REPORTS.—SEPTEMBER 14.

Western Australia: Fine and clear, with light N.W. wind at Albany, gloomy and threatening at Perth, rain 1·220, wind W., S. South Australia reports fine weather round coast, and on the telegraph line; low barometers round coast, and falling steadily, especially to W.; sea smooth, wind light from N. New South Wales: Cloudy and raining on coast, barometers steady, sea moderate, wind fresh from S.E. and S.W., fine inland at many of the stations, especially to S.W.; for particulars *re* amounts, &c., see map. Victoria: Cloudy round coast, but no rain falling; wind light from N., barometers falling, sea moderate; aurora last night at Wilson's Promontory. Tasmania: Low Heads, N.E., 13, fine. Queensland: Rockhampton, raining, S.E. wind, rain 0·950; Brisbane, fine, S.W. wind; Cooktown, cloudy, S.E. wind; Townsville, raining, E. wind, rain 1·520. 3 p.m. Observations:—Victoria: Melbourne, N., 3, cloudy, temperature 72°; Portland, N., 3, sea smooth, temperature 65°; Cape Otway, N.E., 13, cloudy, sea slight, temperature 63°; Wilson's Promontory, N.E., 13, fine, sea smooth, temperature 60°. New South Wales: Wentworth, N.E., cloudy, temperature 62°; Deniliquin, calm, fine, temperature, 68°; Albury, calm, fine, temperature, 63°; Goulburn, E., showery, temperature 59°; Forbes, calm, cloudy, temperature 62°; Eden, N.E., 14, fine, sea light, temperature 58°; Cape Otway, N.E., 42, cloudy, sea moderate, temperature 60°; Sydney, E.S.E., 14, cloudy, sea little, temperature 59°; Newcastle, E., 14, fine, sea moderate; Port Macquarie, S.E., 14, cloudy, sea moderate, temperature 62°; Menindie, calm, fine, temperature 62°. New Zealand: Very heavy S.W. gale at Panaru, heavy S.W. rain and thunderstorms, with brilliant aurora at night; at 7.30 a.m. today, shock of earthquake at Welington. It will be noticed that a fine aurora was visible at New Zealand and Wilson's Promontory last night. State of Rivers—Murrumbidgee: At Wagga, 6 feet above summer level; Hay, 4 feet above summer level; Gulgandatd, 6 feet 11 inches above summer level. Murray: At Albury, 5 feet 10 inches above summer level; Euston, 11 feet 8 inches. Darling: At Wentworth, 9 feet 4 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

ations.	W't	M'x	M..	R'in
ino..	–	..	..	..
nterfild	g	71	49	0
ree....	g	82	54	0
ufton..	g	73	60	0
a Inn's	c	74	38	0
erell..	g	68	48	0
arke ..	b	70	51	0
rrabri	g	71	51	0
nidale	g	60	30	0
odem'r	b	60	47	0
nned'h	g	74	47	0
onam'le	c	72	46	0
nworth	b	78	47	0
onab'rn	b	65	41	0
facqrie	g	63	53	0
lcannia	b	71	54	0
rr'undi	g	58	52	0
sslis..	p	65	32	0 08
s'br'ok	g	60	50	0 29
bbo...	n	65	51	0
nindie	b	68	51	0
dgee..	g	65	49	0
itland.	p	65	56	0 60
l End.	b	62	..	0
wcastle	r	68	55	0 25
nge..	b	58	43	0 06
shurst	n	55	45	0 09
23 69		Ea		
Forb's	b	67	49	0 89
Vict'ria	b	70	59	0 57
ndob'ln	b	57	42	0
con..	g	66	50	0 14
coar..	b	65	46	0
ntw'th	b	67	49	0
ing...	b	61	40	0
llgo'ng	p	70	53	0 05
y....	g	69	52	0
ss Vale	r	50	44	0 06
iton...	c	70	48	0
ulburn	g	56	44	0
gga...	g	60	49	0 10
e Geo.	p	68	50	0 37
canb'n	c	64	45	0 10
niliq'n	b	68	48	0
ruya..	–	..	..	..
ndra..	c	42	22	0

WEATHER MAP.

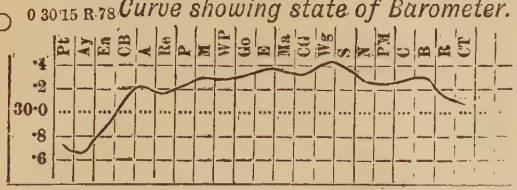
COMPILED from TELEGRAMS for 9 A.M., Sept 14 1881, with NOTES to 3 P.M

Sydney Observatory.

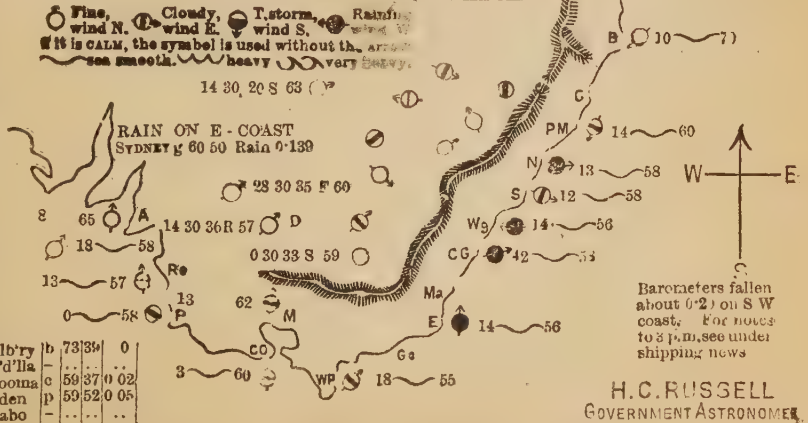
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to September 14 29·285
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. **Cloudy, wind E.** **T.storm, wind S.** **Rain, wind W.**
If it is CALM, the symbol is used without the arrow.
sea smooth. **heavy** **very heavy.**



Alb'ry	b	73	39	0
B'd'lla	–	..	..	..
Cooma	c	59	37	0 02
Eden	p	59	52	0 05
Gabo	–	..	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Roma
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·2 on S W coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 15.

Western Australia: Perth, weather gloomy, wind light from W., sea rough, rain 0.230. Albany: Fine, wind N.W., 8, sea moderate, rain 0.130. South Australia: Weather cloudy, but no rain falling, smooth sea round coast, with light and northerly winds, barometers falling in east and rising in west of colony; Streaky Bay, N., 23, fine; Macdonnell Bay, N.N.W., 13, cloudy, rain 0.080; Daly Waters, calm, cloudy; Port Darwin, S.E., 8, fine. Victoria: Cloudy, with light northerly winds round coast, sea smooth, barometers falling, no rain, dense fog at Wilson's Promontory from midnight until 7 a.m.; Low Heads, Tasmania, N.E., 8, fine; Echuca, N., 13, fine; Omeo, N., 3, fine, rain 0.010. New South Wales: Weather clearing inland, but still cloudy on coast, and raining lightly, with fresh southerly winds; fine down S. at Eden and Moruya; and raining heavily at Port Macquarie, (for rain measurement see map); sea smooth and falling barometers on coast. Queensland: Fine weather, with light S.W. and S.E. winds. 3 p.m. Observations.—Victoria: Barometers falling. Portland: N., 40, hot wind, smooth sea, temperature 70°. New South Wales: Wentworth, N., fine, temperature 67.°; Albury, N., showery, temperature 64.°; Goulburn, N.E., dull, temperature 63°; Forbes, calm, cloudy, temperature 62°; Eden, N.E., 14, fine, light, temperature 61°; Moruya, N.E., 14, fine, sea moderate, temperature 63.°; Cape George, calm, cloudy, sea smooth, temperature 64°; Sydney, S.E., 14, fine sea smooth, temperature 62°; Newcastle, S.S.E., fine, sea moderate; Port Macquarie, S.E., 42, showery, sea moderate, temperature 65°; Menindie, calm, fine, temperature 79°. New Zealand: Fine generally. State of Rivers.—Murrumbidgee: At Wagga, 6 feet above summer level; at Hay, 4 feet 6 inches above summer level; at Balranald, 7 feet above summer level. Murray: At Albury, 5 feet 6 inches above summer level; at Euston, 12 feet above summer level. Darling: At Wentworth, 9 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEP'T 15 1881, with NOTES to 3 P.M

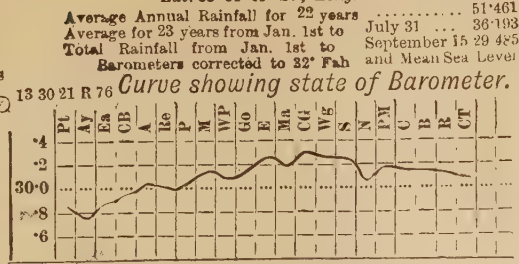
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

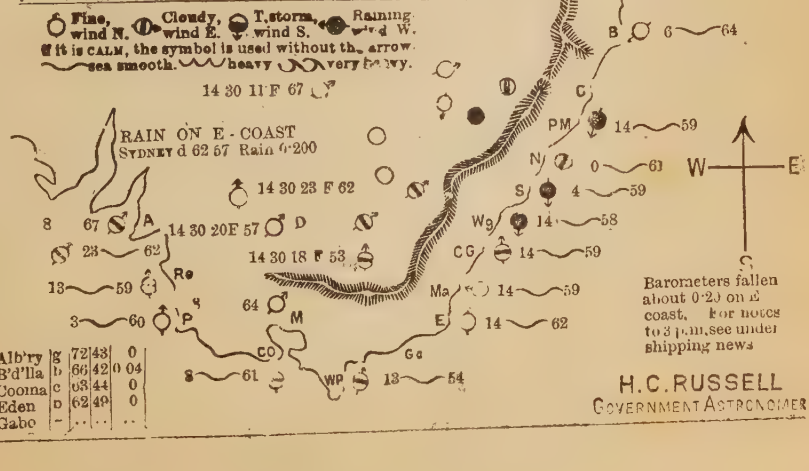
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to September 15 29·485,
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	M'x	M..	R'in
Casino..	b	81	54	0
Tenterfield	g	65	49	0 34
Moree....	b	76	56	0
Grafton..	b	80	54	0
Gl'n Inn's	b	73	38	0 51
Inverell..	b	68	50	0 07
Bourke ..	b	78	57	0
Narrabri	g	69	55	0 10
Armidale	b	60	31	0
Bendem'r	g	65	39	0 35
Gunned'h	g	72	51	0 02
Coonam'le	c	75	52	0
Tamworth	c	76	54	0
Coonab'rn	b	74	41	0
P.Macqrie	r	68	59	1 41
Wilcannia	b	73	55	0
Murr'undi	r	62	55	0 25
Cassilis..	g	64	45	0
Mus'br'ok	g	68	53	0
Dubbo...	b	68	53	0
Menindie	b	73	50	0
Mudgee..	g	74	45	0 05
Maitland.	c	68	56	0 07
Hill End.	c	65	..	0
Newcastle	g	65	51	0 04
Orange..	b	63	46	0
Bathurst	b	60	41	0
Corb's	b	67	48	0
Mt Vict'ria	p	54	45	0 23
Condob'ln	g	57	40	0 08
Picton..	d	59	47	0 53
Carcoar..	b	73	48	0
Wentw'th	b	75	49	0
Young...	b	64	50	0 22
Wollgo'ng	p	66	54	0 83
Hay....	b	78	46	0
Moss Vale	c	56	47	0 18
Euston...	b	80	43	0
Goulburn	g	57	45	0 02
Wagga...	g	65	50	0
Cape Geo.	g	63	51	0 12
Queanb'n	g	55	40	0
Deniliq'in	b	69	43	0
Moruya..	b	66	51	0 17
Kiandra..	b	43	33	0
Alb'ry	g	72	43	0
B'd'lla	b	66	42	0 04
Cooma	c	63	44	0
Eden	b	62	49	0
Gabo	-	..	..	..

Curve showing state of Barometer.



Fine, wind N. **Cloudy, wind E.** **T.storm, wind S.** **Raining wind W.**
If it is CALM, the symbol is used without the arrow.
sea smooth. **heavy** **very heavy.**



R, Rockht'n
B, Brisbane
C, Clance R
PM, Pt. Mac
N, Newc'tle
S, Sydney

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·20 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 16.

Western Australia: Raining, with light W. winds; low barometers and rough sea, rain Albany 0·130. South Australia: Fine and clear, smooth sea; falling barometers, and light N. winds round coast, barometer low in west of colony, no rain; Streaky Bay, N., 13, fine; Macdonnell Bay, N.N.E., 13, fine; Port Augusta, calm, fine; Daly Waters and Port Darwin, calm and fine. Victoria: Fine and clear, light N. winds, sea smooth, barometers steady at 29·970, no rain; Lakes Entrance, N.N.W., 13, squally but clear; Echuca, N.E., 13, fine. Tasmania: Low Heads, fine, barometer 29·870. New South Wales: Fine, clear weather prevails all over colony; on the coast the sea is smooth; the barometers rising, and the wind light from N.; clear and calm inland, barometers steady to W. of range at 30.20 and 30·06. Queensland: Fine, clear weather, sea smooth, light S.E. and S.W. winds; Cooktown, S.E., 23, fine; Townsville, E.N.E., 3, sultry, but clear. 3 p.m. Observations:—Victoria: Melbourne, N.N.E., 18, fine, temperature 77°; Portland, N.W., 23, hot wind, smooth, temperature 74°; Cape Otway, N., 13, hazy, moderate, temperature 78°; Wilson's Promontory, N.E., 13, fine, smooth, temperature 65°. New South Wales: Wentworth, N., fine, temperature 70°; Deniliquin, calm, fine, temperature 73; Albury, calm, fine, temperature 66°; Goulburn, calm, fine, temperature 66°; Eden, E.N.E., 14, fine, light, temperature 44°; Moruya, N.E., 14, fine, moderate, temperature 65°; Cape George, N.E., 12, fine, smooth, temperature 63°; Sydney, E.N.E., 14, fine, smooth, temperature 64.; Newcastle, E.S.E., fine, smooth; Port Macquarie, S.E., 28, cloudy, smooth, temperature . New Zealand: Barometer high, with fine weather; slight shock of earthquake at Wellington at 10.37 p.m. Thursday. State of Rivers.—Murrumbidgee: At Wagga, 6 feet above summer level; at Hay, 4 feet above summer level; at Balranald, 7 feet above summer level. Murray: At Albury, 5 feet 3 inches above summerlevel; at Euston, 12 feet above summer level. Darling: At Wentworth, 9 feet 7 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEP'T 16 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

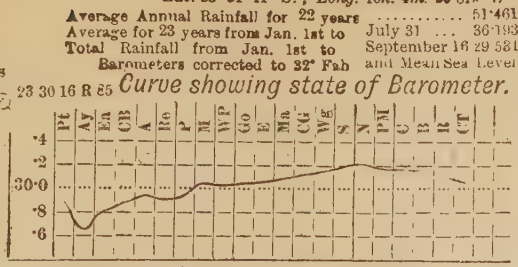
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·793
Total Rainfall from Jan. 1st to September 16 29·581

Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	M'x	M.	R'in
Casino..	c	84 50	0	02
Tenterfild	c	69 47	0	27
Moree....	b	82 51	0	
Grafton...	b	80 55	0	
Gl'n Inn's	b	72 38	0	
Inverell..	b	68 47	0	
Bourke ..	b	80 55	0	
Narrabri	b	72 51	0	
Armidale	g	64 40	0	
Bendem'r	b	67 35	0	
Gunned'h	b	78 37	0	
Goonam'le	b	56 47	0	
Tamworth	b	80 45	0	06
Coonab'rn	o	75 37	0	
P.Macqrie	g	66 55	0	77
Wilcannia	b	72 55	0	
Murr'undi	g	65 52	0	04
Cassilis..	b	71 53	0	
Mus'br'ok	b	68 54	0	
Dubbo...	o	69 51	0	
Menindie	o	75 50	0	
Mudgee..	g	82 46	0	
Maitland.	g	70 55	0	20
Hill End.	b	67 ..	0	
Newcastle	b	62 53	0	
Orange..	b	63 41	0	13
Bathurst	f	65 40	0	
Forb's	b	69 48	0	
Mt Vict'ria	p	57 42	0	05
Condob'ln	b	70 37	0	
Picton..	b	69 44	0	
Carcoar..	b	70 45	0	
Wentw'th	b	80 51	0	
Young...	b	69 45	0	
Wollgo'ng	b	67 52	0	
Hay....	b	76 50	0	
Moss Vale	b	62 47	0	
Euston...	b	83 51	0	
Goulburn	b	67 41	0	
Wagga...	b	70 45	0	12
Cape Geo.	q	68 49	0	
Queanb'n	g	75 46	0	
Deniliq'in	b	78 46	0	
Moruya..	b	68 46	0	
Kiandra..	b	88 58	0	

Alb'ry	b	72	40	0
B'd'lla	-	..	..	..
Cooma	f	67	33	0
Eden	b	62	48	0
Gabo	-	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

Barometers risen about 0·15 on the coast, for notes to 3 p.m. see the shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 17.

Western Australia: S.W. winds, squally; barometers 30·10. South Australia: Generally fine, calms or northerly winds; barometers lowest 29·65 at Robe, fine and clear inland. Victoria: Heavy weather, with low, falling barometers and strong westerly and N.W. winds, sea moderate: Rain—Cape Otway, 0·260; Echuca, N., 28, threatening; Lake entrance, N.E., 18, overcast, sea smooth; showery and squally at Wilson's Promontory. Tasmania: Low Heads, heavy rain, strong N. wind, barometer 29·560. New South Wales: Fine clear weather, especially in E. and N.E. of colony, clouds, apparently coming over from S.W. (South Australia), are reported in the Riverina district, at Hay, Deniliquin, and Albury; smooth sea, falling barometers, and light northerly winds on coast. Queensland: Fine weather, and warm light S. W. and E. winds, sea smooth, no rain. 3 p.m. Observations.—Victoria: Barometers falling, 29·57 at Cape Otway; Portland, N.W., 56, moderate sea, temperature 64°; Cape Otway, N.W., 18, cloudy, moderate sea, temperature 63°; Wilson's Promontory, W.N.W., 23, squally, smooth sea, temperature 68°; New South Wales: Wentworth, W., fine, clear, temperature 71°; Albury, N.W., 10, cloudy, temperature 66°; Goulburn, N.W., cloudy, temperature 69°; Eden, N., fine, sea moderate, temperature 62°, Moruya, N., fine, rough sea: Cape George, N., 20, fine, sea smooth, temperature 64°; Sydney, N.E., 20, fine, clear, temperature 64°: Newcastle, N.E., fine, sea smooth; Port Macquarie, N.E., fine, sea smooth, temperature 63°; Menindie, calm, fine, temperature 75° New Zealand: Light N.W. winds and fine generally. State of rivers —Murrumbidgee: At Wagga, 6 feet 6 inches above summer level; Hay, 4 feet 6 inches above summer level; Balranald, 7 feet above summer level. Murray: At Albury, 4 feet 5 inches above summer level; Euston, 12 feet above summer level; Darling: At Wentworth, 9 feet 8 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEP'T 17 1881, with NOTES to 3 P.M

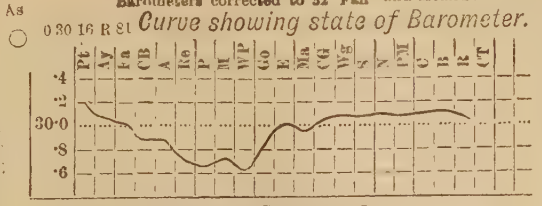
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

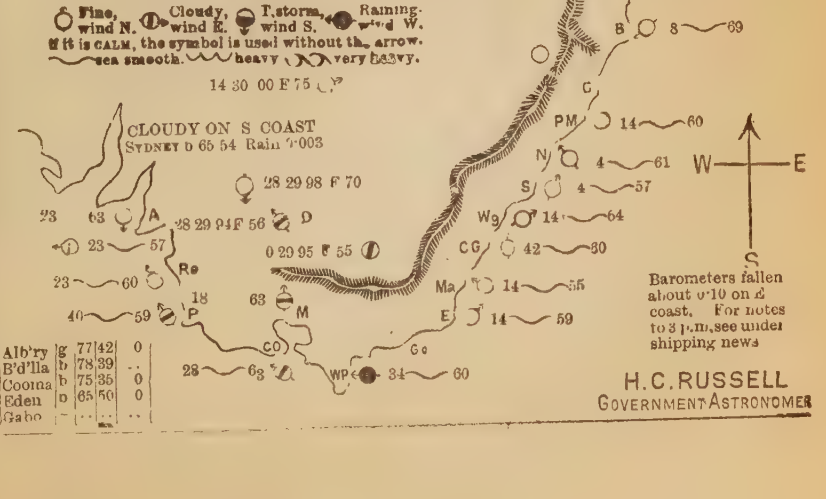
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 .... 36·193
Total Rainfall from Jan. 1st to September 17 29·534
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W't	M'n	M'x	R'in
Casino..	b	76 45		0
Tenterfild	o	49 48		0
Moree....	b	87 60		0
Grafton..	b	78 51		0
Gl'n Inn's	b	72 35		0
Inverell..	b	73 47		0
Bourke ..	b	82 62		0
Narrabri	b	77 53		0
Armidale	b	62 44		0
Bendem'r	b	70 51		0
Gunned'h	–	..	..	..
Coonam'le	b	79 51		0
Tamworth	b	83 46		0
Coonab'rn	o	76 41		0
P.Macqrie	b	69 52		0
Wilcannia	g	78 51		0
Murr'undi	b	67 50		0
Cassilis..	b	72 44		0
Mus'br'ok	f	78 51		0
Dubbo...	o	73 56		0
Menindie	o	82 63		0·01
Mudgee..	b	74 50		0
Maitland.	f	68 45		0
Hill End.	b	68 ..		0
Newcastle	b	66 56		0
Orange..	b	64 41		0
Bathurst	b	69 39		0
28 65		Ca		0
c'orb's	b	69 48		0
Mt Vict'ria	b	64 46		
Condob'lin		..	..	..
Picton..	g	72 55		0
Carcoar..	b	70 46		0
Wentw'th	b	85 64		0
Young...	b	70 51		0
Wollgo'ng	b	68 55		0
Hay....	g	79 58		0
Moss Vale	b	68 46		0
Euston...	b	86 60		0
Goulburn	b	73 38		0
Wagga...	g	70 49		0
Cape Geo.	b	65 54		0
Queanb'n	b	77 47		0
Deniliq'in	g	78 56		0
Moruya..	b	68 48		0
Kiandra...	b	59 25		0

Alb'ry	g	77	42	0
B'd'lla	b	78	39	..
Cooma	b	75	35	0
Eden	o	65	50	0
Gabo	–	..	..	..



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pr'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·10 on E coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—September 19.

Western Australia: Perth gloomy weather, with light S.E. wind, sea moderate; Albany, gloomy and threatening rain, light W. wind, rain 0·170. South Australia: Cloudy on the Southern coast, barometers still falling, sea rising, wind fresh from west; rain, Borda 0·160, Robe 0·010; Streaky Bay, W.N.W., 23, cloudy, rain 0·010; Daly Waters, calm, fine. Victoria: Cloudy all round coast, with fresh W. and W.N.W. winds, barometers falling, sea rough, and apparently rising; rain, Otway 0·050. Portland 0·480; Echuca, W., 18, fine; Lake Entrance, W.N.W., 23, fine; Omeo, N., 8, fine; Low Heads, Tasmania, W.N.W., 28, heavy showers. New South Wales: Fine, clear weather all over colony, smooth sea, falling barometers, and light westerly winds on coast, calm and clear inland. Queensland: Fine and clear, light W. and S.W. winds; Townsville, E.N.E., 8, fine and clear; Brisbane, rain measured 0·050. Victoria: Barometers falling. 3 p.m. Observations: Portland, W., 48, squally, smooth sea, temperature 55°; Cape Otway, W.N.W., 56, S. gale increasing, showery, rough sea, temperature 55°; Wilson's Promontory, W., 48, squally, temperature 51°. New South Wales: Wentworth, W., light, fine, temperature 63°; Deniliquin, W., dull, temperature 66°; Albury, N.W., light, cloudy, temperature 62°; Goulburn, W., strong, fine, temperature 61°; Forbes, calm, fine, temperature 62°; Eden, N.E., 14, fine, light, temperature 59°; Moruya, N.E., 20, fine, moderate sea, temperature 63°; Cape George, E., 14, fine, smooth sea, temperature 62°; Sydney, N.E., 14, fine, smooth sea, temperature 63°; Newcastle, E., fine, smooth sea; Port Macquarie, E.N.E., 28, fine, smooth sea, temperature 67°; Menindie, S.W., fine, temperature 65°. New Zealand: Heavy S.E. gale at Russell; storm at the Bluff. State of rivers.—Murrumbidgee: At Wagga, 6 feet 9 inches above summer level; Hay, 4 feet above summer level; Balranald, 7 feet above summer level. Murray: At Albury, 4 feet 8 inches above summer level; Euston, 12 feet 6 inches above summer level; Darling: At Wentworth, 10 feet above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEP'T 19 1888, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

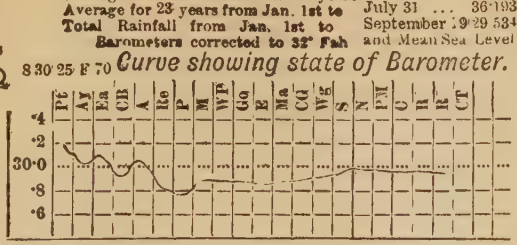
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to September 19 29·534
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W'th	W'x	Max	R'in
Casino..	b	89	46	0
Waterfld	b	75	39	0
Coree....	–	..	..	..
Grafton..	b	89	61	0
Bl'n Inn's	b	71	34	0
Inverell..	–	..	..	..
Bourke ..	b	79	49	0
Narrabri	b	81	41	0
Armidale	b	71	43	0
Tenterfield	b	72	38	0
Tenned'h	–	..	..	..
Coonam'le	b	76	44	0
Tamworth	–	..	..	..
Coonab'rn	b	76	31	0
P.Macqrie	b	71	55	0 03
Wilcannia	b	81	44	0
Murr'undi	b	70	44	0
Hassalis..	a	65	30	0
Mus'br'ok	b	79	45	0
Dubbo...	b	71	47	0
Menindie	b	83	46	0
Mudgee..	b	80	35	0
Maitland.	c	77	53	0
Hill End.	b	67	..	0
Newcastle	b	81	50	0
Orange..	b	59	35	0
Bathurst	b	71	31	0
8 62		Ea		
Forb's	b	67	48	0
Mt Vict'ria	b	65	35	0
Condob'lin	b	62	32	0
Picton..	b	72	43	0
Carcoar..	n	67	37	0
Wentw'th	b	70	41	0
Young...	b	66	38	0
Wollgo'ng	b	83	47	0
Hay....	b	80	41	0
Moss Vale	b	64	39	0
Euston...	b	80	34	0
Goulburn	b	62	33	0
Wagga...	g	74	49	0
Cape Geo.	b	74	42	0
Queanb'n	b	75	38	0
Deniliq'in	b	81	38	0
Moruya..	b	64	41	0
Kiandra..	b	60	34	0

Alb'ry	g	76	39	0
B'd'lla	b	75	31	0
Cooma	b	61	29	0
Eden	b	63	45	0 06
Gabo	–	..	..	..

As

8 30 25 F 70 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30 04 R 62

CLOUDY ON S COAST
SYDNEY b 77 50 Rain 0·000

.. 30 12 R 57

14 30 07 R 54

14 30 07 R 54

13 57 A 14 30 07 R 54 D

13 57

23 53 Re

3 54 P 18 57 M

48 52 CO WP Go

R 03 69

B 71

C

PM 14 63

N 4 59

S 12 57

Wg 0 60

CG 28 54

Ma 14 49

E 14 53

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt'w
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh'n
B, Brisbane
C, Cooee R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

W — E

Barometers fallen about 0·15 on all coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 20.

South Australia: Cloudy and showery round south coast, with falling barometers, rough sea, and fresh westerly winds. Rain: Adelaide, 0·210; Robe, 0·250; Borda, 0·210, fine inland; Port Augusta, S.E., 23, fine; Daly Waters, N., 18, fine; Port Darwin, calm, fine; Powell's Creek, N.W., 8, fine; Tennant's Creek, N.E., 8, fine. Victoria: Cloudy and showery, strong west winds and falling barometers on coast, sea rough, barometers low. Rain: Cape Otway, 0·430, Portland, 0·390; Wilson's 0·330, squally from W.S.W. at Lake Entrance, fine at Omeo, showery since 9 a.m. yesterday at Low Heads, Tasmania. New South Wales: Fine, clear weather reported from all stations, smooth sea, falling barometers, and fresh westerly winds on coast; no rain, calm and warm inland. Queensland: Fine, clear weather, barometers falling, sea smooth; no rain. 3 p.m. Observations.—Victoria, barometers rising in W.; Melbourne, W.S.W., 23, raining, temperature 55°; Portland, W.S.W., 40, gloomy, sea moderate, temperature 55°; Cape Otway, W.N W., 56, showery, rather rough, temperature 45°; Wilson's Promontory, W., 23, squally, rather rough, temperature 50°. New South Wales: Wentworth, N.W., strong, fine, temperature 62°; Deniliquin, N.N.W., fine, temperature 71°; Albury, W., strong, cloudy, temperature 64°; Goulburn, W., fine, temperature 63°; Forbes, calm, fine, temperature 64°; Eden, N.E., 28, fine, light, temperature 64°; Moruya, N.W., 28, fine, moderate, temperature 71°; Cape George, W., 42, fine, sea smooth, temperature 66°; Sydney, W.N.W., 14, fine, sea smooth, temperature 71°; Newcastle, W.N.W., fine, sea smooth; Port Macquarie, N.E., 28, fine, sea smooth, temperature 67°; Menindie, S.W., fine, temperature 66°. New Zealand: Very heavy easterly sea on N.E. coast of New Zealand, weather generally fine in south island. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 6 inches above summer level; Hay, 4 feet 6 inches above summer level; Balranald, 7 feet above summer level. Murray: At Albury, 4 feet 9 inches above summer level; Euston, 12 feet 8 inches above summer level; Darling: At Wentworth, 10 feet above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

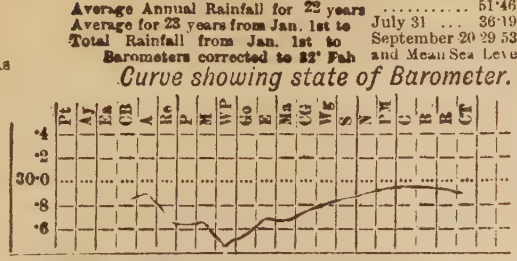
COMPILED from TELEGRAMS for 9 A.M., T 20 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to July 31 ... 36·193
Total Rainfall from Jan. 1st to September 20 29·534
Barometers corrected to 32° Fah and Mean Sea Level

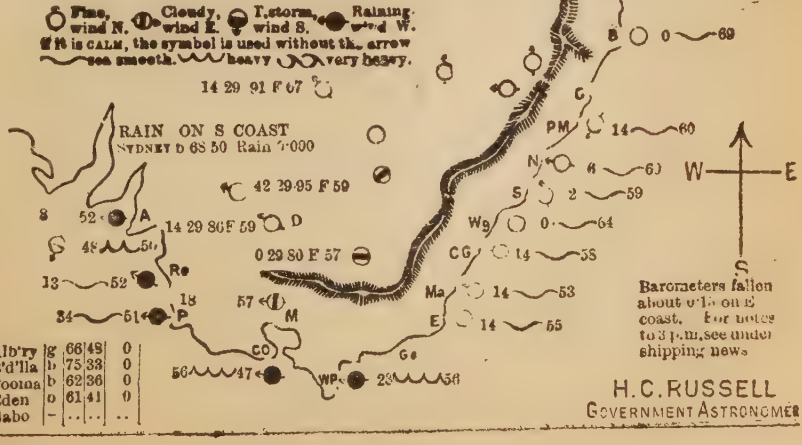
Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.

Stations.	W't	M'X	M.A	R'in
Casino..	b	83 38		0
Centerfild	b	72 36		0
Coree....	b	81 47		0
Grafton..	b	80 35		0
Gl'n Inn's	b	76 34		0
Inverell..	b	71 35		0
Bourke ..	b	78 51		0
Narrabri	b	74 43		0
Armidale	b	70 44		0
Bendem'r	b	78 34		0
Canned'h	b	81 30		0
Coonam'le	b	75 40		0
Tamworth	o	77 53		0
Coonab'rn	b	72 30		0
P.Macqrie	b	68 50		0
Wilcannia	b	84 51		0
Murr'undi	o	66 42		0
Cassilis..	o	64 38		0
Mus'br'ok	b	73 41		0
Dubbo...	b	75 45		0
Menindie	b	72 46		0
Mudgee..	b	76 33		0
Maitland.	b	69 49		0
Hill End.	b	63 ..		0
Newcastle	b	70 46		0
Orange..	b	56 35		0
Bathurst	b	62 35		0
		Ea		
Forb's	b	65 46		0
Mt Vict'ria	b	57 40		0
Condob'lin	b	68 34		0
Cocton..	b	63 35		0
Barcoar..	b	62 39		0
Wentw'th	b	71 49		0
Young...	g	61 40		0
Wollgo'ng	b	75 46		0
Hay....	g	66 43		0
Moss Vale	b	60 42		0
Huston...	b	71 43		0
Goulburn	b	63 49		0
Wagga...	b	66 43		0
Cape Geo.	b	69 45		0
Queanb'n	b	65 40		0
Deniliq'n	b	67 47		0
Moruya..	b	66 41		0
Kiandra..	b	48 13		0
Alb'ry	g	66 48		0
B'd'lla	b	75 33		0
Cooma	b	62 36		0
Eden	o	61 41		0
Gabo	–	..	..	..

As



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R. Rockh'n
B. Brisbane
C. Cape R
PM, Pt. Mac
N. Newc'tle
S. Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·15 on E coast. For notes to 3 p.m. see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 21.

Western Australia: Fine and clear, light E, winds and smooth sea, no rain. South Australia: Cloudy on coast, sea smooth, barometers rising, espec ally in west of colony, wind fresh from S.E.; Streaky Bay, stormy from S., rain 0.040; Port Augusta, S.W., 13, cloudy—cloudy weather on telegraph line—light rain averaging about 0.050, have fallen generally as far north as MacDonnell Ranges. Victoria: Cloudy and raining, rough sea, strong W. winds and rapidly rising barometers on coast, rain at Wilson's Promontory, 0·750; Lake Entrance, raining lightly; Echuca, W., 18, fine; Omeo, N.W., 3, fine, rain 0·300. Tasmania: Low Heads, W., 28, fine. New South Wales: Fine and clear; dull gloomy weather to S.W. at Wagga, Carcoar, Bodalla, and Cooma; rising barometers, smooth sea, and light S.W. winds on coast. Queensland: Cooktown, fine and calm; Townsville, N.N.E., 13, gloomy; Rockhampton and Brisbane cloudy, light N. and W. winds. 3 p.m. Observations.—Melbourne, W.S.W., 13, raining, temperature 47°; Portland, S.S.W., 34, squally, smooth sea, temperature 51°; Cape Otway, S., 18, raining, rather rough sea, temperature 48°; Wilson's Promontory, W.S.W., 34, hailstorm, moderate sea, temperature 45°. New South Wales: Deniliquin, W., fine, temperature 64°; Albury, W., cloudy, temperature 60°; Goulburn, W., dull, temperature 59°; Forbes, S.W., cloudy, temperature 64°; Eden, E., like rain, smooth sea, temperature 58°; Moruya, S.W., dull, smooth sea; Cape George, S.E., light, cloudy, smooth sea, temperature 60°; Sydney, E.N.E., 14, cloudy, smooth sea, temperature 62°; Newcastle, N.E., fine, smooth; Port Macquarie, N.E. 28, fine, smooth sea, temperature 67°. New Zealand: Fine generally; moderately heavy sea at Hokitika. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 3 inches above summer level; Lachlan, 4 feet above summer level; Balranald, 7 feet above summer level. Murray: At Albury, 5 feet 7 inches above summer level; Euston, 12 feet 10 inches above summer level.

ations..	w't	M'X	M.)	R'in
ino..	b	86 38		0
aterfild	b	68 37		0
ree....	g	79 50		0
fton..	b	87 33		0
a Inn's	b	76 32		0
erell..	c	70 36		0
arke ..	b	81 52		0
rrabri	b	74 45		0
nidale	b	65 35		0
ndem'r	b	73 35		0
nned'h	b	85 38		0
onam'le	b	76 44		0
nworth	o	77 55		0
onab'rn	b	72 32		0
facqrie	b	70 46		0
lcannia	r	80 51		0
rr'undi	b	67 47		0
silis..	b	68 48		0
s'br'ok	b	73 43		0
bbo...	b	73 44		0
nindie	g	72 41	0	18
dgee..	b	75 40		0
itland.	b	71 50		0
l End.	b	68 ..		0
wcastle	b	74 47		0
nge..	b	59 40		0
hurst	b	64 37		0
, 40 56		Ea		
Forb's	b	69 48		0
Vict'ria	b	57 43		0
ndob'lin	g	55 39		0
ton..	b	69 39		0
rcoar..	g	63 44		0
ntw'th	b	71 41		0
ung...	b	60 49		0
llgo'ng	b	69 51		0
y....	b	69 42		0
ss Vale	b	62 43		0
ston...	b	63 34		0
alburn	b	65 46		0
gga...	g	67 45	0	04
be Geo.	b	74 51		0
eanb'n	b	67 42		0
niliq'in	b	67 33	0	84
ruya..	b	72 50	0	04
ndra..	b	36 10	0	60

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEP'T 21 1881, with NOTES to 3 P.M

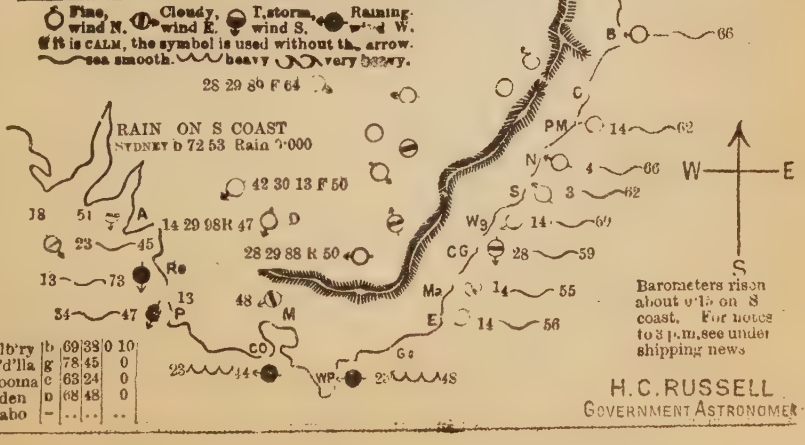
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to September 21 29 534
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'w
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers rison about 0·15 on S coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 22.

Western Australia: Fine, light west winds and calms, sea smooth, no rain, barometer 30·250. South Australia: Weather still somewhat cloudy, but clearing up; barometers rising, sea moderately rough; light rains have been general S. of Beltana; Streaky Bay, N.W., 8, cloudy, 0·010; Port Augusta, S., 13, cloudy; Daly Waters, S.E., 34, fine; Port Darwin, S., 15, fine. Victoria: Cloudy round coast, sea moderate, barometers rising, wind fresh from S.W.; rain—Melbourne, 0·250; Otway and Portland, 0·040; Wilson's Promontory, 0·230; Lake Entrance, W.S.W., 28, fine, 0·010; Echuca, S., 13, fine. Tasmania: Low Heads, W.S.W., 23, fine and clear. New South Wales: Cloudy, raining across centre of colony and in the N. and N.W., fine on Victorian border and in Riverina district, barometers rising, sea moderate, winds fresh from S. For rainfall of last night see weather map. Queensland: Gloomy in S.E. of colony; Brisbane, 0·710; raining, wind N.E. at Rockhampton; Townsville, gloomy, wind N.N.E., 8; Cooktown, fine, clear, with westerly winds. 3 p.m. Observations.—Victoria: Melbourne, S., 8, cloudy, temperature 54°; Portland, S.W., 28, cloudy, slight sea, temperature 55°; Cape Otway, S.W., 13, showery, sea moderate, temperature 56°; Wilson's Promontory, S.E., 18, fine, sea moderate, temperature 59°; New South Wales: Wentworth, S., fine, temperature 58°; Deniliquin, S.W., cloudy, temperature 50°; Albury, S.W., light, fine, temperature 59°; Goulburn, S.E., dull, temperature 57°; Forbes, calm, cloudy, temperature 58°; Cape George, S.S.E., 56, fine, sea moderate, temperature 56°; Sydney, S., 42, raining, sea moderate, temperature 50°; Newcastle, S.E., raining, sea moderate; Port Macquarie, S.W., 42, raining, sea smooth, temperature 63°; Menindie, S.W., cloudy, temperature 5[illegible]°; New Zealand, fine generally, with N.W. winds. On reference to the weather map it will be seen that moderate rains have again fallen over a large part of the colony, especially New England and western slopes of the main range; the heaviest rain reported is only 0·93, at Wollongong. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 3 inches above summer level; at Hay, 4 feet above summer level; at Balranald, 7 feet above summer level. Murray: At Albury, 5 feet 3 inches above summer level; at Euston, 12 feet 10 inches above summer level. Darling: At Wentworth, 10 feet 3 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

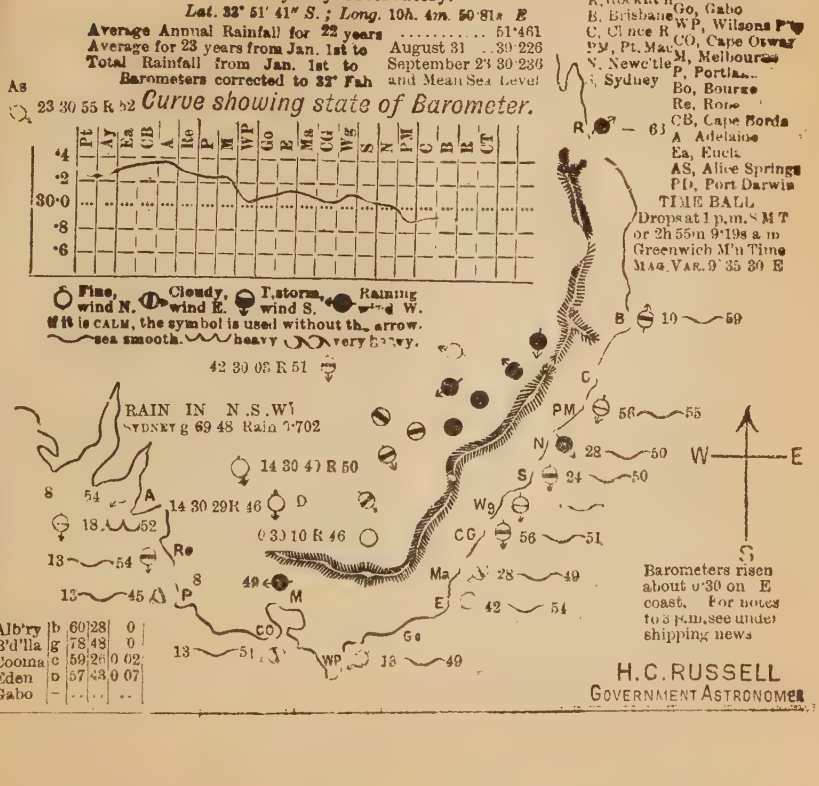
COMPILED from TELEGRAMS for 9 A.M., SEP'T 22 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to September 23 30·236
Barometers corrected to 32° Fah and Mean Sea Level

ations.	w't	M'x	M.D	R'in
sino..	d	84	56	0 14
nterfild	d	65	47	0
oree....	b	78	51	0
afton..	g	80	45	0 04
n Inn's	g	75	32	0
verell..	p	70	37	0 08
urke ..	g	69	49	0
urrabri	g	78	51	0
amidale	r	65	35	0
ndem'r	r	72	35	0
nned'h	r	85	36	0 07
onam'le	g	79	31	0 11
mworth	c	80	49	0 22
onab'rn	d	72	38	0 06
Macqrie	[illegible]	72	55	0
ilcannia	b	58	44	0
arr'undi	r	63	45	0 25
ssilis..	r	76	45	0
as'br'ok	r	77	45	0 80
ibbo...	r	76	42	0 31
enindie	b	60	39	0
udgee..	s	77	43	0 15
aitland.	r	72	50	0 65
ill End.	s	68	..	0
wcastle	r	73	48	0 48
ange..	s	58	34	0 05
thurst	r	63	36	0 34
	Ea			
Forb's	g	63	46	0
Vict'ria	s	58	32	0
ndob'ln	g	47	34	0
ton..	d	69	48	0 15
rcoar..	g	57	40	0
entw'th	b	61	30	0 07
ung...	g	61	40	0
ollgo'ng	c	73	43	0 93
y....	b	59	32	0
ss Vale	g	63	36	0 14
ston...	b	66	36	0
ulburn	g	59	37	0
gga...	b	59	35	0
oe Geo.	c	67	43	0 05
eanb'n	b	55	35	0
niliq in	b	62	33	0
ruya..	g	69	42	0
undra..	b	40	0	0 40



Alb'ry	b	60	28	0
B'd'lla	g	78	48	0
Cooma	c	59	26	0 02
Eden	b	57	43	0 07
Gabo	–	..	..	..

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 23.

Victoria: Weather still cloudy, showery at Wilson's Promontory and Cape Otway, barometers falling, wind fresh from N.W., sea moderate; Lake Entrance, W.N.W., 13, fine; Echuca, S.E., 13, fine; Omeo, S.S.W., 3, fine; rain, Otway 0·200, Portland 0·140, Wilson's Promontory 0·090. Tasmania: Low Heads, W., 23, fine. New South Wales: Heavy rains in N.W. of colony, quite fine at generality of stations near the Victorian border; for measurements and locality of rain see weather map; cloudy on coast N. of Wollongong, sea moderate, barometers falling, wind strong from S. and increasing, S.E. winds on mountains, calm in S.W., snowing at Armidale and Mount Victoria. Queensland: Brisbane, gloomy, rain 0·130; Rockhampton, fine, light W. winds, rain 0·860; Cooktown, fine, fresh S.E. wind no rain; Townsville, fine, fresh S. wind, no rain. 3 p.m. Observations.—Victoria: Barometers falling a little; Melbourne, N.W., 13, fine, temperature 58·; Cape Otway, W.N.W., 8, fine, sea moderate, temperature 59·, Portland, S.W., 13, showery, sea smooth, temperature 52·; Wilson's Promontory, W.S.W., 13, showery, sea smooth, temperature 51·. New South Wales: Wentworth, S., fine, temperature 59·; Albury, S.W., fine, temperature 60·; Forbes, S.W., fine, temperature 63·; Moruya, S.E., 30, cloudy, sea moderate; Sydney, S.W., 42, showery, sea moderate, temperature 52·; Port Macquarie, S.W., 56, heavy gale with rain and heavy sea, temperature 65·; Menindie, S.W., strong, cloudy, temperature 59·; Deniliquin, S., dull, temperature 68·; Goulburn, S., fine, temperature 52·; Eden, E.S.E., cloudy, sea smooth, temperature 57·; Newcastle, S.E., stormy, sea heavy. New Zealand: Fine generally; last night a heavy N.W. gale was blowing in the North Island; rain, 0·60. It will be seen from the above and the weather map that a heavy southerly gale is blowing on the coast, being heaviest from Newcastle northwards. The barometer curve shows a depression, or storm centre between Newcastle and Brisbane, hence the heavy gale and sea. The rain, it will be seen, has been almost confined to the coast and highlands north of Newcastle. At Sydney the two days' rain does not amount to one inch, and the western parts of the colony have had little or none. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 3 inches above summer level; at Hay, 5 feet 6 inches above summer level; at Balranald, 7 feet above summer level. Murray: At Albury, 5 feet 2 inches above summer level; at Euston, 12 feet 10 inches above summer level. Darling: At Wentworth, 10 feet 3 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

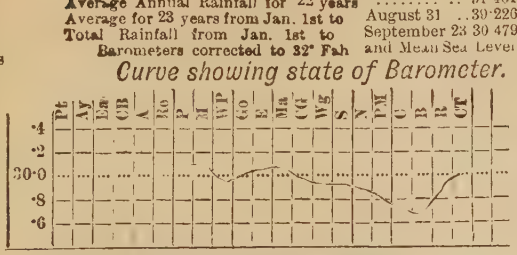
COMPILED from TELEGRAMS for 9 A.M., SEPT 23 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to August 31 ..30·226
Total Rainfall from Jan. 1st to September 23 30 479
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

WG, Wollongong
CG, Cape George
Ma, Moruya
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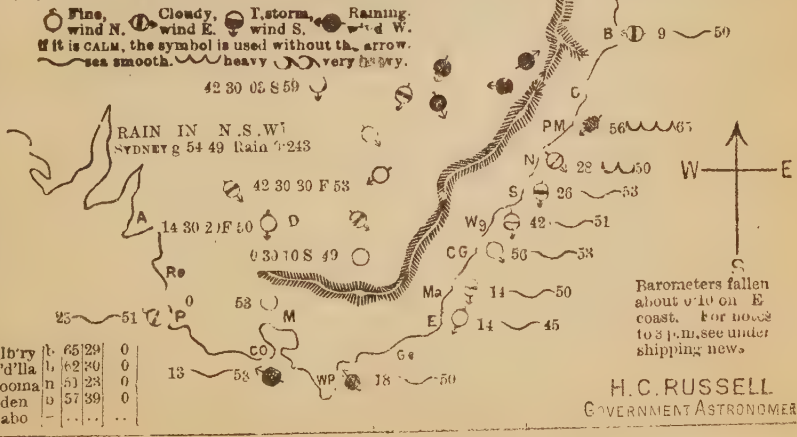
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
Sydney

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9 35 30 E



Barometers fallen about 0·10 on E coast. For notes to 3 p.m. see under shipping news

Alb'ry	b	65	29	0
B'd'lla	b	62	30	0
Cooma	n	51	23	0
Eden	b	57	39	0
Gabo		..	..	..

tions.	w't	w'x	M.o	R'in
ino..	r	67	59	0 72
terfild	r	60	25	1 76
ee....	ı	71	46	0 86
fton..	r	71	38	0 62
n Inn's	d	75	28	0 85
erell..	r	70	43	0 95
rke ..	t.	75	47	0
rabri	r	60	43	0 57
nidale	s	65	24	1 63
ndem'r	p	73	33	0
ned'h	r	54	39	1 03
nam'le	g	50	43	0 19
nworth	c	52	44	0 75
nab'rn	g	48	40	0 07
facqrie	-	..	..	..
cannia	n	63	43	0
rr'undi	r	49	42	0 90
srlis..	g	49	39	0 59
s'br'ok	r	55	40	0 54
obo...	b	49	41	0 19
nindie	q	61	42	0
dgee..	c	67	41	0 17
itland.	r	55	40	0 60
l End.	c	58	..	0 43
wcastle	q	69	47	0 50
nge..	g	49	33	0 20
hurst	2	53	35	0 16
		Ea		
Forb's	b	61	47	0
Vict'ria	s	35	31	0
ndob'lu	o	55	29	0
con..	g	54	35	0 02
rcoar..	g	48	38	0
ntw'th	c	63	40	0
ung...	b	60	38	0
llgo'ng	c	62	44	0 15
y....	b	60	34	0
ss Vale	b	47	36	0 04
ston...	b	67	37	0
alburn	g	59	27	0
gga...	b	59	33	0
e Geo.	b	59	41	0
canb'n	n	55	27	0
niliq in	q	61	34	0
ruya..	g	67	48	0
ndra..	b	45	10	0

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 24.

Western and South Australia: No telegrams. Victoria: Weather still cloudy, fresh S.E. and S.S.W. winds, moderate sea, and rising barometers round coast; Echuca, S., 28, fine; Omeo, S., 13, raining lightly, rain 0·020; Lake Entrance, W., 13, raining heavily. Low Heads, Tasmania, S.E., 23, fine, rain; Portland, 0·210; Melbourne, 0·010; Wilson's Promontory, 0.160. New South Wales: Heavy weather on coast, wind strong from south, barometers low and still falling; sea very heavy, breaking across Wollongong harbour; fine clear weather with high and light southerly winds in Riverina district at Wentworth, Deniliquin, Euston, Albury, &c.; snowing lightly at Kiandra. (For rainfall see Weather Map.) Queensland: Brisbane, barometer 29·86, W. winds, temperature 59°, rain 0·02; Townsville, 30·12, S., 20, fine, no rain; Cooktown, calm, clear, 30·07, no rain. 3 p.m. Observations.—Victoria: Barometers rising; Portland, S.E., 23, cloudy, smooth sea, temperature 52°; Cape Otway, S.E., 12, cloudy, moderate sea, temperature 53°; Wilson's Promontory, E.S.E., 13, cloudy, smooth sea, temperature 54°; Entrance to the Lakes, S.S.E., 28, threatening, sea rising, temperature 56°. New South Wales: Wentworth, S.S.W., cloudy, temperature 61°; Deniliquin, S., fine, temperature 63°; Albury, S., 10, cloudy, temperature 62°; Eden, S.W., cloudy, heavy sea, temperature 59°; Moruya, S.S.E, 48, cloudy, heavy sea, temperature 56°; Cape George, S., 56, showery, heavy sea, temperature 62°; Sydney, S.W., 30, fine, barometeter rising, temperature 57°; Newcastle, S.W., cloudy, heavy sea; Port Macquarie, S.S.W., squally, heavy sea, temperature 64°. New Zealand: Strong N.E. gale on N.E. coast, with high sea, N.W. winds in south.

Stations.	W'th	M'X	M.T	R'in
Casino..	b	67	46	0 75
Interfild	b	45	37	0 16
Coree....	-	..	..	..
Grafton..	b	63	41	0 13
Gin Gin's	c	76	33	0
Everell..	-	..	..	..
Hurke ..	b	73	46	0
Jarrabri	-	..	..	..
Armidale	g	65	24	0 58
Bendem'r	c	72	33	0
Cunned'h	-	..	..	..
Donam'le	-	..	..	..
Armworth	-	..	..	..
Donab'rn	b	53	38	0
Macqrie	-	..	..	..
Gilcannia	b	69	44	0
Murr'undi	-	..	..	..
Hassilis..	b	59	36	0
Hus'br'ok	-	..	..	..
Hubbo...	b	58	42	0
Jenindie	g	63	46	0
Kudgee..	g	64	37	0
Maitland.	-	..	..	..
Mill End.	b	60	..	0
Newcastle	g	71	46	1 40
Orange..	g	47	34	0
Orthurst	g	49	38	0
		Ea		
Porb's	b	61	43	0
Port Vict'ria	c	40	33	0
Rondob'ln	b	60	40	0
Scton..	q	54	46	0
Narcoar..	b	45	34	0
Tent'w'th	b	68	45	0
Young...	b	59	38	0
Wollgo'ng	c	63	48	0 05
Wray....	b	59	35	0
Moss Vale	g	44	34	0 15
Muston...	b	62	42	0
Goulburn	b	51	36	0
Wagga...	g	60	35	0
Cape Geo.	p	61	45	0 13
Queanb'n	b	68	40	0
Deniliq'in	b	64	35	0
Koruya..	-	..	..	.
Flandra..	s	45	0	0

WEATHER MAP.

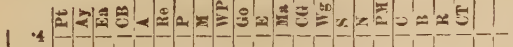
COMPILED from TELEGRAMS for 9 A.M., SEPT 24 1881, with NOTES to 3 P.M

Sydney Observatory.

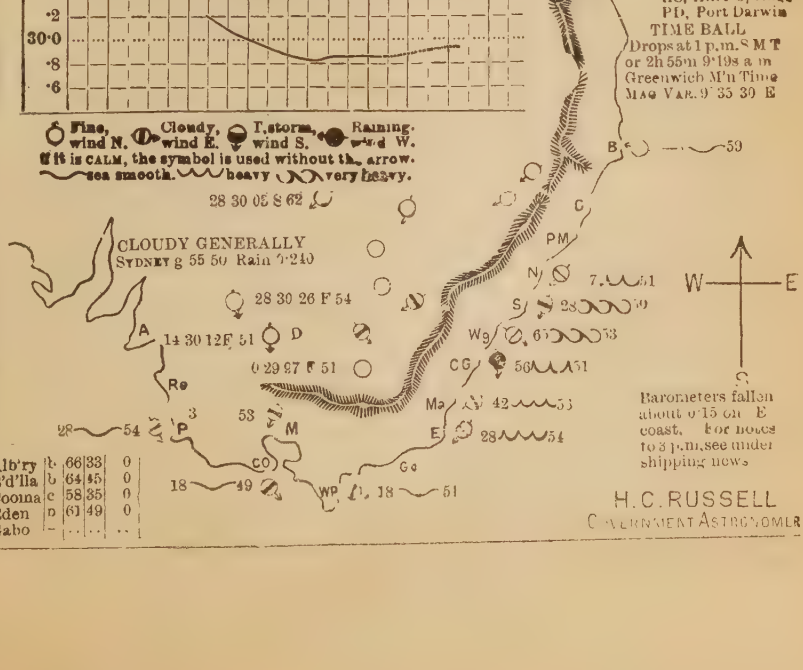
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to September 24 30·719
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 26.

estern Australia: Gloomy weather, with light westerly winds smooth sea. Rain at Perth, 0·130. South Australia: Fine her at majority of stations, moderate sea, light variable winds steady barometers round S. coast. Port Augusta, N., 13, fine; Donnell Bay, N., 13, fine; Streaky Bay, N., 23, fine; Daly ers, S.E., 8, fine; Port Darwin, S., 18, fine. Victoria: Fine her prevails round the coast, and the sea is smooth, with light ble winds and calms and steady barometers. Omeo, N.N.E., e; Lake Entrance, S.E., 13, fine, sea moderate; Echuca, S.E., ne; Low Heads, Tasmania, N.W., 23, overcast. New South s: Fine at majority of stations, more especially those W. of mountains, cloudy at places on coast and mountains, sea th, barometers rising, wind from S., light, and calm at places; till heavy at Wollongong, but much lower all down coast than wind was strong from S. Queensland: Cooktown, S.E., 23, ly; Townsville, S.E., 8, fine; Brisbane, gloomy, wind S.W., smooth; Rockhampton, fine, wind S.W. 3 p.m. Observa-.—Victoria: Melbourne, N., 18, fine, temperature 70·; Cape y, N.N.E., 8, broken clouds, slight sea, temperature 63·; and, N.N.W., 3, light clouds, smooth sea, temperature 65·; on's Promontory, N.E., 3, fine, smooth sea, temperature 57·. South Wales: Wentworth, N.W., fine, temperature 63·; y, calm, cloudy, temperature 61·; Forbes, calm, fine, tem-ure 59·; Moruya, N.E., 42, fine, heavy sea, temperature 61·; ey, E., 14, fine, smooth sea, temperature 58·6; Port Mac-e, W., 28, cloudy, smooth sea, temperature 61·; Menindie, fine, temperature 64·; Deniliquin, calm, fine, temperature oulburn, N,E., light, fine, temperature 61·; Eden, N.E., 14, ght sea, temperature 60·; Cape George, calm, fine, moderate emperature 62·; Newcastle, S.E., fine, smooth sea. New d: Heavy N.W. winds at Wellington on Sunday, with nches rain; to-day heavy S.W. gales, and 0·60 inch rain. of Rivers.—Murrumbidgee: At Wagga, 5 feet 3 inches summer level; at Hay, 6 feet 8 inches above summer level; anald, 7 feet above summer level. Murray: At Albury, 4 nches above summer level; at Euston, 12 feet 10 inches summer level. Darling: At Wentworth, 10 feet 6 inches summer level; at Pooncarie, Menindie, and Wilcannia, r level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEPT 26 1881, with NOTES to 3 P.M

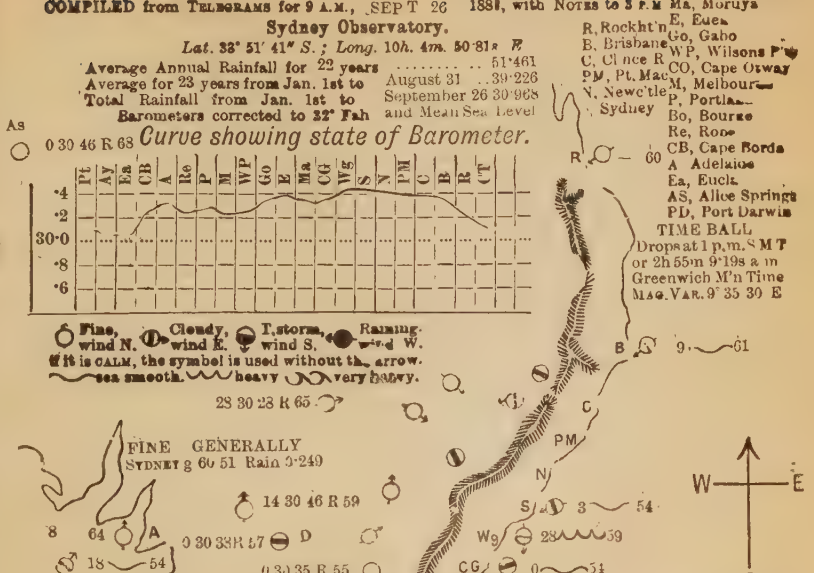
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to September 26 30·968
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	M'x	M.a	R'in
asino..	c	75	47	0 15
enterfild	g	67	45	0 03
oree....	b	77	49	0
rafton..	g	71	53	0 03
ll'n Inn's	c	75	29	0
nverell..	b	63	36	0
ourke ..	b	76	48	0
arrabri	b	71	47	0
rmidale	g	56	24	0
endem'r	c	72	33	0
anned'h	b	75	45	0
oonam'le	–	..	..	..
amworth	b	71	39	0
oonab'rn	b	53	38	0
.Macqrie	–	..	..	..
Vilcannia	b	75	40	0
urr'undi	g	57	46	0
assilis..	g	61	47	0
us'br'ok	b	65	44	0
ubbo...	b	66	46	0
enindie	b	70	48	0
udgee..	g	76	39	0
aitland.	c	63	50	0 23
ill End.	b	65	.	0
Newcastle	–	..	..	..
range..	b	58	36	0
athurst	b	63	35	0
23 61		Ea		
orb's	b	63	47	0
t Vict'ria	g	54	34	0 07
ondob'ln	b	65	32	0
icton..	b	62	45	0
arcoar..	b	70	40	0
entw'th	b	71	40	0
oung...	b	63	44	0
ollgo'ng	c	66	51	0 04
ay....	–	..	..	..
oss Vale	g	54	42	0
uston...	c	79	59	0
oulburn	b	62	36	0
agga...	b	67	39	0
ape Geo.	c	60	47	0 31
ueanb'n	b	67	37	0
enilig'in	b	70	35	0
oruya..	–	..	..	.
iandra..	b	70	35	0

Alb'ry	b	73	34	0
B'd'lla	–	..	..	.
Cooma	b	68	34	0
Eden	b	63	44	0
Gabo	–	..	..	..



METEOROLOGICAL REPORTS.—SEPTEMBER 27.

Western Australia: Gloomy on S.W. coast, with light E. wind and smooth sea; rain at Perth 0·170. South Australia: Barometers rising throughout colony; threatening weather south of Port Augusta, sea smooth, wind light from S.; Streaky Bay, S.S.E., 13, cloudy; M'Donnell Bay, S. 13, dull, rain 0·020; Port Augusta, N., 13, gloomy; Daly Waters, calm, fine; Part Darwin, S., 18, fine; rainfall at Borda, 0·010. Victoria: Cloudy weather round coast, sea smooth, barometers falling, winds light from N.; rain Portland, 0·010; Lake entrance, W.N.W., 18, fine; Echuca, N., 13, overcast. Tasmania: Low Heads, N.N.E., 13, overcast. New South Wales: Fine clear weather throughout colony; wind light from N., and calm at majority of inland stations; smooth sea and falling barometers on coast; dull and threatening at Wentworth. Queensland: Fine clear weather, with falling barometers, and smooth sea on coast as far north as Cooktown. 3 p.m. Observations.—Victoria: Melbourne, E.N.E., 28, dull, temperature 64°: Wilson's Promontory, N.W., 8, dull, sea smooth, temperature 67°. New South Wales: Wentworth, S.W., fine, temperature 67°; Deniliquin, W., dull, temperature 69°; Albury, calm, cloudy, temperature 63°; Goulburn, W., fine, temperature 65°; Eden, N.E. light, fine, sea smooth, temperature 65°; Moruya, N.E., fine, sea smooth; Cape George, N., light, fine, sea smooth, temperature 53°; Sydney, E.N.E., 14, fine, sea smooth, temperature 66°; Newcastle, E., fine, sea smooth; Menindie, S.W., 30, stormy, temperature 68°. New Zealand: Fine generally. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 3 inches above summer level; at Hay, 7 feet 1 inch above summer level; at Balranald, 7 feet 3 inches above summer level. Murray: At Albury, 4 feet above summer level; at Euston, 12 feet 10 inches above summer level. Darling: At Wentworth, 10 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

ations.	W'th	M'X	M.N	R'fin
ino..	c	67	48	0·21
terfild	b	60	30	0
ree....	b	80	50	0
fton..	b	71	51	0·09
a Inn's	b	73	28	0
erell..	b	64	36	0
arke ..	b	79	51	0
rrabri	b	72	45	0
nidale	b	57	22	0
ndem'r	f	73	34	0
aned'h	-	..	..	..
nam'le	c	66	44	0
nworth	b	76	38	0
nab'rn	b	69	36	0
facqrie	b	61	47	0·04
cannia	b	80	50	0
rr'undi	b	62	41	0
sdis..	b	67	38	0
s'br'ok	b	70	39	0
bbo...	b	68	44	0
nindie	g	74	48	0
dgee..	b	77	38	0
itland.	c	65	46	0
l End.	b	67	..	0
wcastle	b	67	44	0
nge..	b	59	36	0
burst	b	66	35	0
13 61		Ea		
forb's	b	68	40	0
Vict'ria	b	56	39	0
dob'ln	b	68	35	0
on..	b	69	37	0
coar..	b	67	39	0
ntw'th	g	81	54	0
ng...	b	69	45	0
lgo'ng	b	68	50	0
y....	b	76	44	0
s Vale	b	61	38	0
ton...	g	84	48	0
lburn	b	70	32	0
gga...	b	69	43	0
e Geo.	b	61	45	0
anb'n	b	73	40	0
iliq'in	b	73	43	0
ruya..	b	68	42	0
ndra..	b	91	36	0

WEATHER MAP.

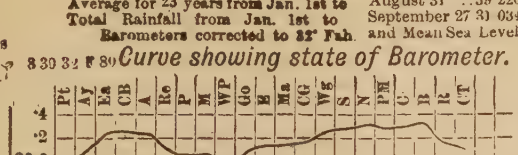
COMPILED from TELEGRAMS for 9 A.M., SEP T 27 1881, with NOTES to 3 P.M

Sydney Observatory.

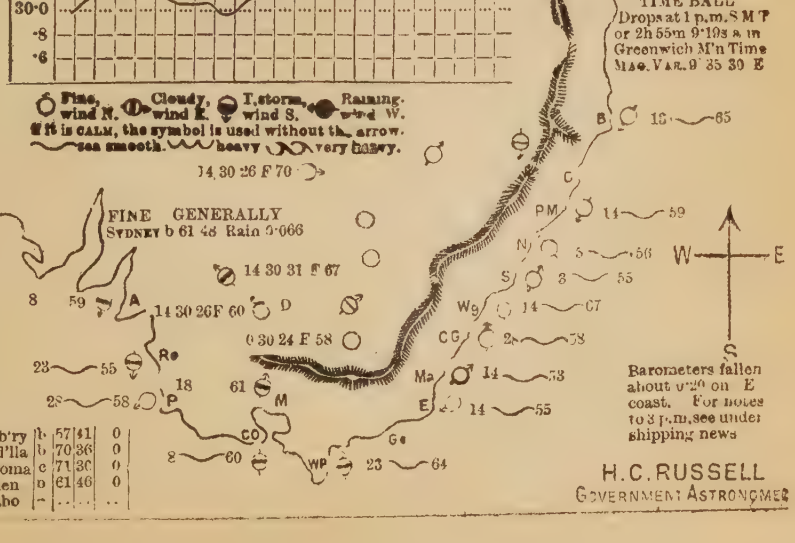
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 .. 39·226
Total Rainfall from Jan. 1st to September 27 31 034
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T,storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Alb'ry	b	57	41	0
B'd'lla	b	70	36	0
Cooma	c	71	30	0
Eden	b	61	46	0
Gabo	-	..	..	..

R, Rockh't'n
B, Brisbane
C, Clunce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'w
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Ro, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·20 on E coast. For notes to 3 p.m, see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 28.

'estern Australia: Fine clear weather, light N.W. wind; rain lbany, 0·210. South Australia: Fine and clear, smooth sea, ıg barometers, and light E.N.E. winds and calms on coast; and warm on overland telegraph line, with light S.E. winds calms. Victoria: Cloudy on coast, sea smooth, barometers ıg, winds fresh from S.; rain at Melbourne, 0·010; Omeo, 0. Tasmania: Low Heads, fine, light S.E. wind. New th Wales: Cloudy weather on coast and mountains, winds t from S.W., sea smooth, barometers falling; light rain at llongong and Cape St. George. Queensland: Weather fine, t S.E. and S.W. winds. 3 p.m. Observations.—Victoria: bourne, S.W., 18, fine, temperature 57·; Portland, E.S.E., 23, , sea smooth, temperature 57·; Cape Otway, S.E., 8, fine, sea ıoth, temperature 58·. New South Wales: Wentworth, S.E., , temperature 65·; Denihquin, S.E., fine, temperature 68·; ury, calm, cloudy, temperature 65·; Goulburn, S., dull, tem- atuie 61·; Forbes, calm, cloudy, temperature 64·; Eden, S.E., fine, light, temperature 64·; Moruya, S.E., 28, dull, sea lerate, temperature 61·; Cape George, S.S.E., 42, showery, sea ıoth, temperature 61·; Sydney, S., 28, cloudy, sea smooth, ıperature 60·; Newcastle, S. dull, sea smooth; Port Mac- rie, S., 28, squally, sea smooth, temperature 64·; Menindie, V., fine, temperature 67·. New Zealand: Weather clear and , with a heavy gale blowing from N.E. State of Rivers.— rrumbidgee: At Wagga, 4 feet 11 inches above summer l. Murray: At Albury, 5 feet above summer level. Dar- : At Wentworth, 10 feet 6 inches above summer level; at ncarie, Menindie, and Wilcannia, summer level.

ions.	w't	w'x	m.	R'in
..e..	c	77	45	0
erfild	g	69	43	0
..e....	g	81	57	0
..ton..	b	80	51	0
hun's	g	73	22	0
rell..	g	68	47	0
..ke ..	b	85	56	0
..abri	c	73	45	0
idale	g	62	22	0
dem'r	c	73	34	0
ned'h	c	81	52	0 02
nam'le	c	79	51	0
nworth	c	79	49	0
nab'rn	b	73	48	0
acqrie	g	67	49	0
cannia	b	83	54	0
r'undi	g	65	43	0
..ilis..	b	70	54	0
..b'r'ok	b	74	52	0
..bo...	b	69	50	0
..indie	b	78	48	0
..lgee..	g	80	53	0
..tland.	d	68	53	0
..l. End.	b	66		0
..vcastle	g	69	45	0
..nge..	c	63	41	0
..hurst	b	67	47	0
34 82		Ea		
..Gorb's	b	69	47	0
..Vict'ria	b	62	45	0
..idob'ln	b	70	42	0
..ton..	g	72	39	0
..rcoar..	b	61	53	0 14
..ntw'th	b	79	46	0
..ung...	b	71	51	0
..illgo'ng	r	69	53	0 25
..y....	b	72	46	0
..ss Vale	r	66	47	0 45
..ston...	b	83	46	0
..ulburn	b	74	47	0
..gga...	b	72	49	0 12
..pe Geo.	p	56	50	0 05
..eanb'n	c	73	48	0
..nilig'in	b	71	42	0
..ruya..	–	..	..	.
..undra..	c	50	35	

WEATHER MAP.

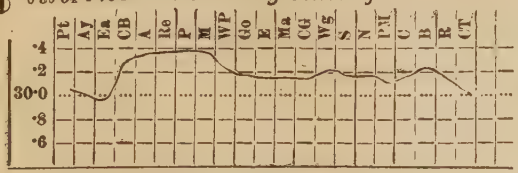
COMPILED from TELEGRAMS for 9 A.M., SEPT 28 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

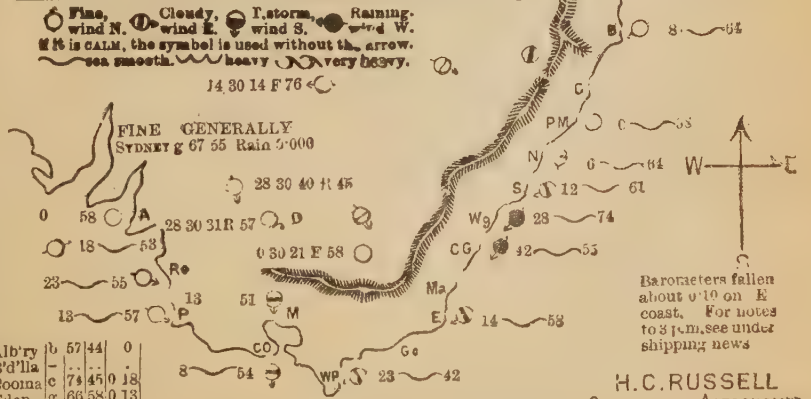
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to September 28 39·034
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30 14 F 76



Alb'ry	b	57	44	0
B'd'lla	–	..	..	.
Cooma	c	73	45	0 18
Eden	g	66	58	0 13
Gabo	–	..	..	..

WO, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·10 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—SEPTEMBER 29.

Western Australia: Weather gloomy, light N.E. and W.N.W. winds, sea smooth, barometers at 30·0. South Australia: Fine weather prevails, except near West Australian border; smooth sea, light northerly winds and falling barometers round coast. Streaky Bay, S.W., 23, cloudy; Macdonnell Bay, N., 23, fine; Port Augusta, N., 8, fine, sea smooth; Daly Waters, and Powell's, and Tennant's Creek, fine and calm. Victoria: Fine clear weather, light north winds, falling barometers, and smooth sea all round. Lake Entrance, N.E., 13, fine; Echuca, N., 28, fine; Low Heads, Tasmania, N.E., 13, overcast. New South Wales: Fine inland, with light S.W. and N.E. winds and calms, cloudy on coast S. of Port Macquarie, sea smooth, barometers rising, wind fresh from S. and S.W. (For rainfall see weather map.) Queensland: Fine and clear, light S.E. and S.W., sea smooth, barometers 30·06 at Cooktown, 30·25 at Brisbane; Townsville, fine and clear, light S. wind. 3 p.m. Observations.—Victoria: Barometers steady. Melbourne, N., 3, fine, temperature 64°; Portland, N., 28, fine, clear, sea smooth, temperature 70°; Cape Otway, E., 14, fine, clear, sea smooth, temperature 62°; Wilson's Promontory, N.E., 18, hazy, sea smooth, temperature 58°. New South Wales: Wentworth, N.W., fine, temperature 70°; Deniliquin, N., fine, temperature, 72°; Albury, W., fine, temperature 68°; Goulburn, N.E., light, cloudy, temperature 61°; Forbes, calm, fine, temperature 66°; Eden, N.E., fine, sea smooth, temperature 62°; Moruya, N.E., 28, fine, sea moderate, temperature 62°; Cape George, calm, fine, sea smooth, temperature 60°; Sydney, E.N.E., 14, fine, sea smooth, temperature 63°; Newcastle, S.E., fine, sea smooth; Port Macquarie, N.W., 14, fine, sea smooth, temperature 64°; Menindie, calm, fine temperature 78°; New Zealand, fine, clear generally. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 9 inches above summer level; Hay, 7 feet above summer level. Murray: At Albury, 3 feet 11 inches above summer level. Darling: At Wentworth, 10 feet 6 inches above summer level; Pooncarie, Menindi, and Wilcannia, summer level.

WEATHER MAP.

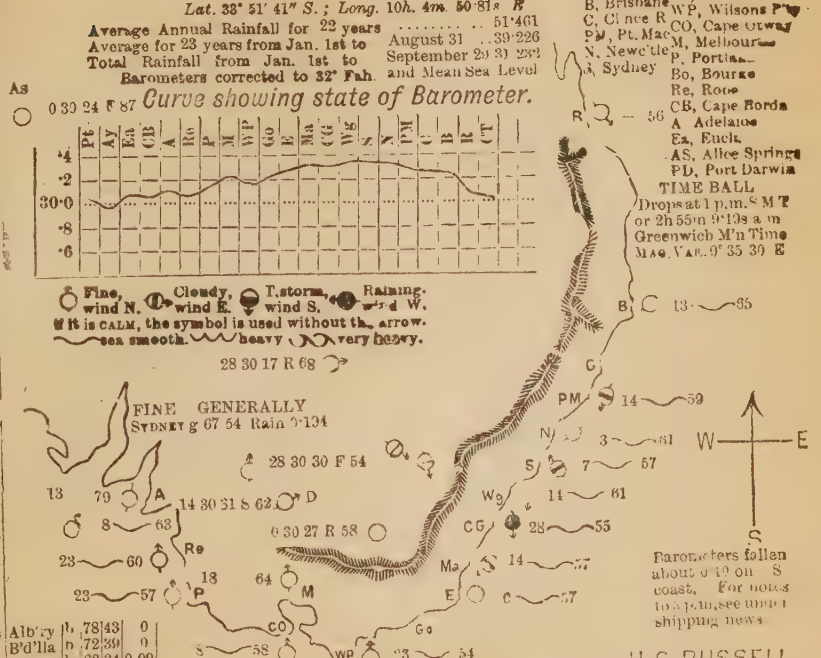
COMPILED from TELEGRAMS for 9 A.M., SEPT 29 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to September 29 31·232
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.	R'in
Casino..	b	79	47	0 09
Tenterfild	b	65	43	0
Moree....	b	81	54	0
Grafton..	b	72	50	0
Gl'n Inn's	b	73	27	0 10
Inverell..	b	63	42	0
Bourke ..	b	86	54	0
Narrabri	b	75	47	0 56
Armidale	b	61	22	0
Bendem'r	b	73	33	0
Gunned'h	b	80	47	0 27
Coonam'le	–	..	..	..
Tamworth	b	77	42	0 15
Coonab'rn	b	70	35	0
P.Macqrie	g	69	50	0 17
Wilcannia	b	76	54	0
Murr'undi	b	66	48	0
Cassilis..	b	71	50	0
Mus'br'ok	b	77	44	0
Dubbo...	b	71	50	0
Menindie	b	73	47	0
Mudgee..	b	77	49	0
Maitland.	o	71	52	0 12
Hill End.	b	66	..	0
Newcastle	b	72	44	0 05
Orange..	c	63	43	0
Bathurst	b	62	45	0
28 66		Ea		
Corb'n	b	70	50	0
Mt Vict'ria	p	54	43	0 08
Condob'lin	b	64	42	0
Picton..	b	67	54	0 30
Carcoar..	b	71	50	0
Wentw'th	b	77	45	0
Young...	b	68	48	0
Wollgo'ng	b	66	51	1 60
Hay.....	b	71	46	0
Moss Vale	g	51	45	0 77
Euston...	–	..	..	..
Goulburn	g	60	45	0
Wagga...	b	71	48	0
Cape Geo.	p	63	51	0 54
Queanb'n	b	69	44	0
Deniliq'in	b	79	43	0
Moruya..	b	64	49	0
Kiandra..	b	90	24	0
Alb'ry	b	78	43	0
B'd'lla	b	72	39	0
Cooma	b	62	34	0 09
Eden	b	64	45	0
Gabo	–	..	..	..



METEOROLOGICAL REPORTS.—SEPTEMBER 30.

Western Australia: Perth, fine, rain 0·800; Albany, gloomy, light west wind, rain 1·640. South Australia: Fine clear weather, light N. and W. winds, smooth sea, and falling barometers on coast; hot wind at Eucla; Streaky Bay, N., 18, cloudy; St. Augusta, S., 8, fine; Daly Waters, N.E., 8, fine. Victoria: Fine clear weather round coast, light broken clouds at Wilson's and Melbourne, smooth sea, slowly rising barometers, and light S.W. winds; Lake Entrance, N.W., 18, cloudy; Echuca, N., 23, fine; Low Heads, Tasmania, W.N.W., 18, overcast. New South Wales: Fine clear weather throughout colony, smooth sea, falling barometers and light northerly winds, and calms on coast; calm, fine, and warm inland. Queensland: Fine and clear, light S. and S.E. winds. 3 p.m. Observations.—Victoria: Barometers falling; Melbourne, S., 13, fine, temperature 60; Portland, S.E., fine, sea smooth, temperature 60°: Cape Otway, N.W., 14, cloudy, sea smooth, temperature 58°; Wilson's Promontory, W., 23, hazy, squally, sea smooth; temperature 57°. New South Wales: Wentworth, W., fine, temperature 70°; Deniliquin, N.W., strong, fine, hot, temperature 68°; Albury, N., light, fine, temperature 67°; Goulburn, W., fine, temperature 67°; Eden, N., 14, fine, light, temperature 67°; Moruya, N.E., 20, cloudy, sea moderate, temperature 66°; Cape George, N.E., 28, fine, sea smooth, temperature 65°; Sydney, E.N.E., 14, fine, sea smooth, temperature 67°; Newcastle, N.E., fine, sea smooth; Port Macquarie, N.E., 28, fine, sea smooth, temperature 67°; Menindie, W.N.W., fine, temperature 76°. New Zealand: Fine generally. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 8 inches above summer level; Hay, 6 feet above summer level; Balranald, 8 feet above summer level. Murray: At Albury, 3 feet 11 inches above summer level; Euston, 12 feet 10 inches above summer level. Darling: At Wentworth, 10 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., SEPT 30 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to September 30 39 311
Barometers corrected to 32° Fah. and Mean Sea Level

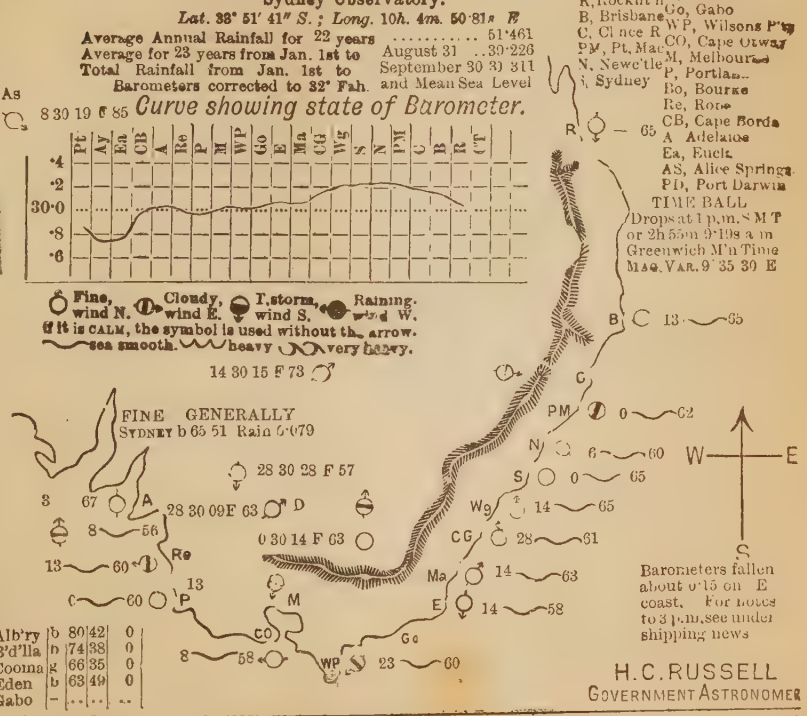
Stations.	W'th	M'x	M.N	R'in
Casino..	o	73	54	0·15
Tenterfild	g	63	42	0
Moree....	b	83	56	0
Grafton..	g	71	48	0·67
Gl'n Inn's	c	74	27	0
Inverell..	b	68	41	0
Bourke ..	b	82	54	0
Narrabri	b	74	50	0
Armidale	b	62	47	0
Bendem'r	b	73	34	0
Gunned'h	b	80	48	0
Coonam'le	b	76	49	0
Tamworth	b	79	42	0
Coonab'rn	b	72	35	0
P.Macqrie	g	67·52	0·47	
Wilcannia	b	79	63	0
Murr'undi	b	67	45	0
Cassilis..	b	69	50	0
Mus'br'ok	b	75	44	0
Dubbo...	b	71	47	0
Menindie	b	78	51	0
Mudgee..	b	73	44	0
Maitland.	b	70	51	0
Hill End.	o	68	.	0
Newcastle	b	71	51	0
Orange..	b	65	41	0
Bathurst	b	67	38	0
Forb's	b	72	50	0
Mt Vict'ria	b	54	41	0
Condob'lin	o	76	47	0
Picton..	b	64	42	0
Carcoar..	b	73	43	0
Wentw'th	b	83	50	0
Young...	b	69	47	0
Wollgo'ng	b	67	44	0
Hay....	b	77	51	0
Moss Vale	b	60	45	0
Euston...	b	85	40	0
Goulburn	b	67	34	0
Wagga...	p	75	46	0
Cape Geo.	b	60	49	0
Queanb'n	b	75	41	0
Deniliq'in	b	76	48	0
Moruya..	b	66	50	0
Kiandra..	b	90	35	0

Alb'ry	b	80	42	0
B'd'lla	b	74	38	0
Cooma	g	66	35	0
Eden	b	63	49	0
Gabo	–	..	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E



Barometers fallen about 0·15 on E coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 1.

Western Australia: Gloomy at Perth, with light S.E. wind; temperature 56°. South Australia: Cloudy on coast, with wind from W. and W.S.W.; smooth sea at Port Augusta; barometer rising as far E. as Cape Borda, but a heavy fall to the east of Kangaroo Island. Victoria: Cloudy round coast, smooth sea, falling barometers, and light northerly winds prevailing; Lake Entrance, E.N.E., 13, dull; Echuca, N., 28, fine; Omeo, N.E., 18, dull. Tasmania: Low Head, E.N.E., 18, dull. New South Wales: Fine, clear; warm weather is reported at all stations, and on the coast the sea is smooth, the barometers falling steadily, and the wind light from north; no rain. Queensland: Fine weather at Cooktown, with a rather strong breeze from the S.E. 3 p.m. Observations.—Victoria: Cape Otway, N.W., 3, fine, sea moderate, temperature 67; Portland, W., 3, cloudy, squally, sea smooth, temperature 63; Wilson's Promontory, N.N.E., 3, fine, foggy, sea slight, temperature 63. New South Wales: Wentworth, N., strong, sultry, temperature 79°; Menindie, N., hot, temperature 81°; Albury, S.W., strong, fine, clear, temperature 74°; Goulburn, N.W., light, fine; Eden, N., fresh, fine, sea smooth, temperature 71°; Moruya, N.E., fresh, fine, temperature 57°; Cape George, N. fresh, fine, sea smooth, temperature 68°; Newcastle, N.E., fine, sea smooth; Port Macquarie, N.E., light, fine, sea smooth, temperature 69°. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 9 inches above summer level; Hay, 6 feet 4 inches above summer level; Balranald, 8 feet 2 inches above summer level. Murray: At Albury, 3 feet 11 inches above summer level; Euston, 12 feet 10 inches above summer level. Darling: At Wentworth, 10 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., OCT. 1 1881, with **NOTES** to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to October 1. 39·313
Barometers corrected to 32° Fah and Mean Sea Level

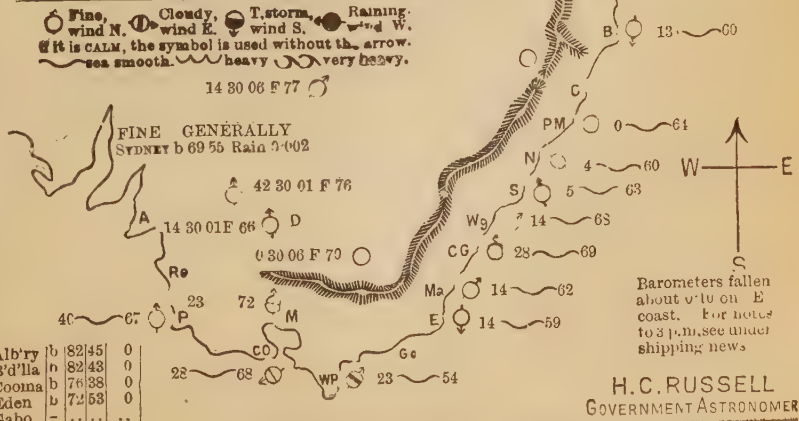
Stations.	W't	M'x	Ma	R'in
Casino..	o	76	53	0·05
Tenterfield	b	67	46	0
Moree....	b	83	58	0
Grafton..	b	92	51	0·05
Gl'n Inn's	b	74	45	0
Inverell..	b	71	43	0
Bourke ..	b	84	59	0
Narrabri	b	76	51	0
Armidale	b	64	32	0
Bendem'r	b	73	33	0
Gunned'h	b	83	45	0
Coonam'le	–	..	..	..
Tamworth	b	83	44	0
Coonab'rn	b	76	38	0
P.Macqrie	b	69	52	0
Wilcannia	b	78	61	0
Murr'undi	b	70	48	0
Cassilis..	b	74	43	0
Mus'br'ok	b	73	46	0
Dubbo...	b	74	52	0
Menindie	o	85	56	0
Mudgee..	b	81	43	0
Maitland.	o	72	55	0
Hill End.	b	68	..	0
Newcastle	b	73	51	0
Orange..	b	67	41	0
Bathurst	b	72	40	0
		Ea		
Forb's	b	73	54	0
Mt Vict'ria	b	67	44	0
Condob'ln	–	..	..	..
Picton..	o	74	43	0
Carcoar..	b	72	45	0
Wentw'th	b	84	55	0
Young...	b	70	50	0
Wollgo'ng	b	74	53	0
Hay....	b	82	55	0
Moss Vale	b	74	45	0
Euston...	b	87	59	0
Goulburn	b	75	37	0
Wagga...	b	80	55	0
Cape Geo.	b	76	52	0
Queanb'n	b	76	46	0
Deniliq'in	b	83	53	0
Moruya..	c	70	50	0
Kiandra..	b	90	50	0

Alb'ry	b	82	45	0
B'd'lla	b	82	43	0
Cooma	b	76	38	0
Eden	b	72	53	0
Gabo	–	..	..	..

As

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockh't'n
B, Brisbane
C, Clnce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·10 on E coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—OCTOBER 3.

Western Australia: Perth, fine and clear, fresh S.E. wind, sea smooth; Albany, gloomy, with light N.N.E. wind, sea smooth. South Australia reports fine weather inland, but cloudy all round coast; barometers steady since 1st instant, but now rising; very heavy squalls in night of 2nd; light rain fallen S. of Clare; sea on coast now rough; wind strong from S.S.W. and W. Victoria: Cloudy round coast, sea rough, barometers fallen about 2·200 inches since last night, wind fresh from N.; rain, Portland 0·480, Wilson's Promontory 0·050; Lake Entrance, N.N.E., 23, fine, squally; Echuca, W., 23, fine. Low Heads, Tasmania, N., 28, showery, barometer low. New South Wales: Fine and clear throughout entire colony, smooth sea, falling barometers, and light S.W. winds on coast; fine, calm, and warm at inland stations. Queensland: Fine and clear, light S.W. and N.W. winds, sea smooth. 3 p.m. Observations.—Victoria: Melbourne, W.N.W., strong and squally, threatening, temperature 56°; Portland, W., strong and squally, heavy rain, slight sea, temperature 49°; Cape Otway, W., strong, squally, showery, rough sea, temperature 45.; Wilson's Promontory, N., strong, squally, showery, moderate sea, temperature 57°. New South Wales: Wentworth, S.S.W., strong, cloudy, temperature 61°; Deniliquin, N.W., dull, temperature 65°; Albury, W., strong, cloudy, temperature 64°; Eden, N.E., 28, fine, light sea, temperature 58°; Moruya, N.E., 42, cloudy, temperature 60°; Cape George, N.E., 42, fine, moderate sea, temperature 59°; Sydney, N.E., fine, smooth sea, temperature 66°; Newcastle, E., fine, smooth sea; Port Macquarie, S.S.E., 42, fine, moderate sea, temperature 62°; Menindie, S.W., cloudy, temperature 68°. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 9 inches above summer level; Hay, 6 feet above summer level; Balranald, 8 feet 6 inches above summer level. Murray: At Albury, 4 feet above summer level; Euston, 12 feet above summer level. Darling: At Wentworth, 10 feet 5 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 3 1881, with NOTES to 3 P.M.

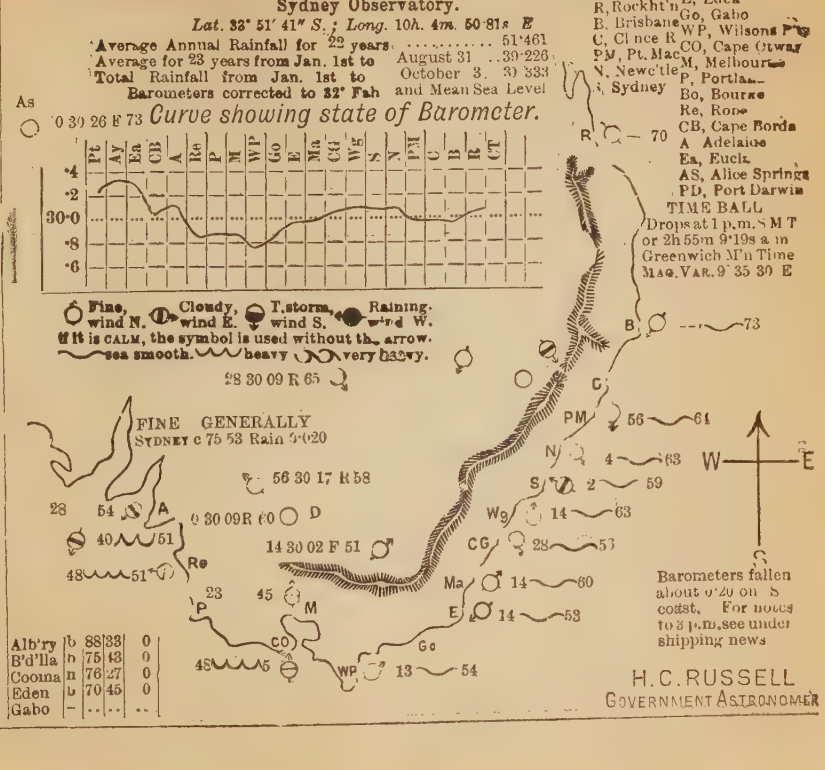
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to October 3. 39·333
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	M'x	M.)	R'in
Casino..	c	64 53		0
Tenterfild	b	66 45		0
Moree....	b	94 57		0
Grafton..	b	79 52		0
Gl'n Inn's	b	78 38		0
Inverell..	b	75 44		0
Bourke ..	b	85 54		0
Narrabri	b	86 55		0
Armidale	b	72 50		0
Bendem'r	b	78 34		0
Gunned'h	–	..	..	..
Coonam'le	–	..	..	..
Tamworth	b	90 42		0
Coonab'rn	b	84 43		0
P. Macqrie	b	73 59		0
Wilcannia	b	80 54		0
Murr'undi	b	77 50		0
Cassilis..	b	84 45		0
Mus'br'ok	b	86 54		0
Dubbo...	b	77 50		0
Menindie	b	90 49		0
Mudgee..	b	86 44		0
Maitland.	b	67 42		0
Hill End.	b	70	..	0
Newcastle	b	86 59		0
Orange..	b	67 36		0
Bathurst	b	77 34		0
8 63		Ea		
Forb's	b	70 50		0
Mt Vict'ria	b	72 37		0
Condob'lin	b	68 35		0
Picton..	b	83 42		0
Carcoar..	b	73 38		0
Wentw'th	b	68 39		0
Young...	b	75 50		0
Wollgo'ng	b	72 52		0
Hay....	b	87 39		0
Moss Vale	b	74 44		0
Euston...	b	91 34		0
Goulburn	b	75 34		0
Wagga...	b	82 29		0
Cape Geo.	b	58 49		0
Queanb'n	b	77 41		0
Deniliq'in	b	82 36		0
Moruya..	b	74 49		0
Kiandra..	b	75 40		0

Alb'ry	b	88	33	0
B'd'lla	b	75	43	0
Cooma	n	76	27	0
Eden	b	70	45	0
Gabo	–	..	..	..



Barometers fallen about 0·20 on S coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 4.

Western Australia: Perth, fine, wind N.W., light, temperature 61°, sea smooth; Albany, fine, with very light N.E. breeze and smooth sea, temperature 57°. South Australia: Cloudy on the coast, 0·02 of rain fell at Adelaide and Streaky Bay, wind generally between S.E. and S.; the barometer is rising, with squally weather, heavy gale on coast, heaviest rain in the S.E. district, over two inches fell at Mount Gambier, sea rough at Streaky Bay. Victoria: Cloudy and showery, with wind between S.E. and S.W.; 0·15 of rain at Melbourne, 0·67 at Portland, 0·33 at Cape Otway, 0·24 at Wilson's Promontory, 0·11 at Lake Entrance, and 0·16 at Omeo; the barometer has fallen about ·28 on south coast, sea high at Cape Otway. Tasmania: S.E. breeze at Low Head, and blowing rather strong. New South Wales: Cloudy generally at stations to S.W. and S.; raining at Wagga and Deniliquin (for rainfall see weather map); wind generally between S. and W., with a fall of 0·17 in the barometer, smooth sea along east coast. Queensland: Fine, with light S. wind at Brisbane and S.E. at Cooktown, moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, S., 13, cloudy, temperature 55°; Portland, S., 34, fine, slight sea, temperature 55°; Cape Otway, S.E., 13, fine, high sea, temperature 56°; Wilson's Promontory, S.S.W., 23, fine, moderate sea, temperature 54°. New South Wales: Wentworth, S.W., cloudy, temperature 60°; Deniliquin, S.W., fresh, cloudy, cold, temperature 62°; Albury, S.W., cloudy, temperature 60°; Goulburn, W., dull, temperature 57°; Forbes, calm, cloudy, temperature 59°; Eden, S.W., light, like rain, light sea, temperature 55°; Moruya, S.E., showery, thunderstorm, temperature 58°; Cape George, S., light, cloudy, smooth sea, temperature 61°; Sydney, S.E., cloudy, dull, smooth sea, temperature 58°; Newcastle, S.E., dull, smooth sea; Port Macquarie, S., strong, unsettled, smooth sea, temperature 66°; Menindie, S., cloudy, temperature 65°. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 11 inches above summer level; Hay, 5 feet 8 inches above summer level; Balranald, 8 feet 5 inches above summer level. Murray: At Albury, 3 feet 11 inches above summer level; Euston, 12 feet above summer level. Darling: At Wentworth, 10 feet 5 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 4 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ...39·226
Total Rainfall from Jan. 1st to October 4. 39·533
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W't	M'x	M.S	R'in
Casino..	b	80,69		0
Tenterfild	–	..	..	..
Moree....	b	82 52		0
Grafton..	b	72 51		0
Gl'n Inn's	b	78,40		0
Inverell..	b	77'42		0
Bourke ..	b	80 54		0
Narrabri	b	80'50		0
Armidale	b	70 30		0
Bendem'r	b	77,34		0
Gunned'h	b	88 43		0
Coonam'le	b	73 48		0
Tamworth	b	84,37		0
Coonab'rn	–	..	..	..
P.Macqrie	b	69 52		0
Wilcannia	b	82,47		0
Murr'undi	b	72.58		0
Cassilis..	b	74,51		0
Mus'br'ok	b	76 51		0
Dubbo...	b	79,46		0
Menindie	b	73,44		0
Mudgee..	b	81 46		0
Maitland.	b	73 52		0
Hill End.	b	70	..	0
Newcastle	b	83,51		0
Orange..	b	61 37		0
Bathurst	b	67 37		0
13 60		Ea		
Forb's	c	72,49		0
Mt Vict'ria	b	63 35		0
Condob'ln	g	57 36		0
Picton..	b	70,41	0	10
Carcoar..	g	62 41	0	07
Wentw'th	g	67,43		0
Young...	c	60,44	0	18
Wollgo'ng	b	71 47		0
Hay....	c	68,44		0
Moss Vale	b	66 38		0
Euston...	o	64 41		0
Goulburn	g	68 38	0	21
Wagga...	r	68 42	0	12
Cape Geo.	b	66,43		0
Queanb'n	b	60 40		0
Deniliq'in	r	68 41	0	11
Moruya..	b	71 46		0
Kiandra..	g	64,32		0

Alb'ry	g	52	40	0 07
B'd'lla	b	71	39	0 01
Cooma	n	65	30	0 12
Eden	b	61	46	0 03
Gabo	–	..	..	..

As

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy.

Barometers fallen about 0·31 on S coast. For notes to 3 p.m., see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER.

METEOROLOGICAL REPORTS.—October 5.

Western Australia: Cloudy, light rain at Perth, slight sea on S.W. coast. South Australia: Weather fine and clear, no rain, bars falling, sea smooth, winds light from S. and S.W., fine, clear, and calm inland on the telegraph line. Victoria: Cloudy round coast, but no rain falling, sea moderate, bars steady, wind fresh from W.; low barometers over Tasmania. New South Wales: Fine inland and to N.W. and N., rough sea, rising bars, light S. winds, and heavy weather on coast, especially to S.E. For rainfall, &c., see weather map. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, fine, temperature 54°; Portland, S.W., 23, fine, smooth sea, temperature 56°; Cape Otway, W.N.W., 3, cloudy, moderate sea, temperature 56°; Wilson's Promontory, W., 23, cloudy, moderate sea, temperature 56°. New South Wales: Deniliquin, calm, fine, temperature 65°; Albury, W., cloudy, temperature 62°; Goulburn, S.W., fine, temperature 60°; Eden, S.S.W., 28, fine, heavy sea, temperature 59°; Moruya, S.S.E., 42, fine, rough sea, temperature 59°; Cape George, S., 70, fine, heavy sea, temperature 57°; Sydney, S., 28, fine, little sea, temperature 60°; Newcastle, S.W., dull, smooth sea; Port Macquarie, S.S.W., 42, unsettled, smooth sea, temperature 62°. New Zealand reports fine weather, light northerly winds. State of Rivers.—Murrumbidgee: At Wagga, 5 feet above summer level; Hay, 6 feet 2 inches above summer level; Balranald, 8 feet 4 inches above summer level. Murray: At Albury, 4 feet 1 inch above summer level. Darling: At Wentworth, 10 feet 4 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 5 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

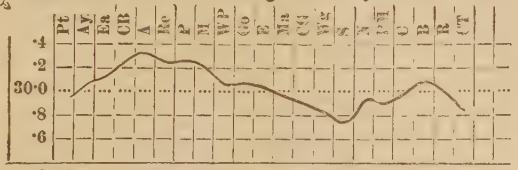
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to October 5. 30·598
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'X	M.	R'in
Casino..	b	80	65	0
Tenterfild	b	66	38	0
Moree....	b	72	48	0
Grafton..	b	81	47	0
Gl'n Inn's	b	77	40	0
Inverell..	c	70	33	0
Bourke ..	b	80	49	0
Narrabri	b	72	43	0
Armidale	b	64	..	0
Bendem'r	g	78	33	0
Gunned'h	b	89	36	0
Coonam'le	b	66	42	0
Tamworth	c	86	38	0
Coonab'rn	b	63	39	0
P.Macqrie	b	67	45	0 31
Wilcannia	b	72	42	0
Murr'undi	p	62	44	0
Cassilis..	b	62	47	0
Mus'br'ok	b	69	43	0
Dubbo...	b	64	43	0
Menindie	b	66	46	0
Mudgee..	g	48	45	0
Maitland.	o	70	50	0
Hill End.	b	65	..	0
Newcastle	b	79	44	0 03
Orange..	b	50	39	0
Bathurst	b	50	41	0
13 69 Ea				
Forb's	b	62	46	0
Mt Vict'ria	r	47	36	0 08
Condob'lin	o	60	32	0
Picton..	r	63	42	0 15
Carcoar..	b	54	43	0 05
Wentw'th	b	58	42	0
Young...	b	63	40	0
Wollgo'ng	r	67	45	0 30
Hay....	b	62	41	0
Moss Vale	r	53	40	0
Euston...	b	72	42	0 50
Goulburn	b	55	40	0
Wagga...	b	62	41	0 18
Cape Geo.	r	57	42	0 03
Queanb'n	b	57	43	0 47
Deniliq'in	b	62	38	0 13
Moruya..	g	68	47	0 02
Kiandra..	b	49	23	1 12

Alb'ry	b	62	35	0
B'd'lla	c	65	46	1 09
Cooma	c	55	38	0 09
Eden	b	63	50	0 41
Gabo	–	..	..	..

As 8 30 33 R 72

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30 11 R 60

CLOUDY GENERALLY
SYDNEY r 63 48 Rain 5·065

28 30 36 R 54

0 55 A 14 29 93F 54 D

13 52

0 30 05 R 54

13 51 Re

28 54 P 13 51 M

13 51 CO

WP 23 49 Gc

Ma 42 53

E 42 50

CG 56 52

Wg 14 48

S 24 60

N 4 57

PM 23 53

C

B 67

R 71

R. Rockht'n
B. Brisbane
C. Clence R.
PM. Pt. Mac
N. Newc'tle
S. Sydney

WG, Wollongong
CG, Cape George.
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'm
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rene
CB, Cape Bordia
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S.M.T
or 2h 55m 9·18s a.m.
Greenwich M.n Time
MAG. VAR. 9° 35′ 30″ E

W — E

Barometers rising about 0·20 on S.E. coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 6.

Western Australia: Cloudy, with light southerly and easterly winds, sea smooth; rain at Albany 0·030. South Australia: Weather fine and clear, smooth sea, falling barometers and light N.E. and N. winds round coast; Streaky Bay, N., 13, cloudy; Macdonnell Bay, N.E., fine; Daly Waters, S.E., 8, fine; Port Darwin, calm and fine. Victoria: Fine in west of colony, clouds round S.E. part of coast, sea smooth, barometers steady, winds light from W. and N.; Lake Entrance, W., 18, fine, Low Heads, Tasmania, fine, S., 34, barometers slow. New South Wales: Fine clear weather all over colony, smooth sea, rising barometers, and light S.W. winds on coast. Queensland: Fine, light S.E. and S.W. winds, sea smooth, barometers rising. 3 p.m. Observations.—New South Wales: Wentworth, S.W., fine, temperature 66°; Albury, W. light, cloudy, temperature 61.; Forbes, calm, fine, temperature 61°; Moruya, E., fine, heavy E. swell; Sydney, S.E., 14, fine, little sea, temperature 61°, Port Macquarie, S.S.E., 42, fine, smooth sea, temperature 65°; Menindie, calm, fine, temperature 68°; Deniliquin, calm, fine, temperature 62°; Goulburn, W., light, fine, temperature 62°; Eden, N.E., 14, fine, light sea, temperature 59°; Cape George, S., 14, fine, little sea, temperature 60°; Newcastle, E.S.E., fine, smooth sea. New Zealand reports fine weather over the island generally. State of Rivers.—Murrumbidgee: At Wagga, 5 feet above summer level; Hay, 5 feet 6 inches above summer level; Balranald, 8 feet 3 inches above summer level; Murray: At Albury, 5 feet 9 inches above summer level. Darling: At Wentworth, 10 feet 4 inches above summer level; Pooncarie, Menindi, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 6 1888, with NOTES to 3 P.M

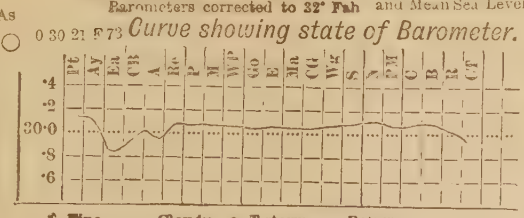
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·31*s E*

Average Annual Rainfall for 22 years ..... 51·361
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to October 6. 39·577
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W't	M'X	MA	R'in
Casino..	b	77	66	0
Tenterfild	b	69	32	0
Moree....	b	73	45	0
Grafton..	b	79	47	0
Gl'n Inn's	b	78	32	0
Inverell..	b	64	33	0
Bourke ..	b	79	51	0
Narrabri	b	72	44	0
Armidale	b	58	..	0
Bendem'r	b	78	33	0
Gunned'h	b	80	37	0
Coonam'le	b	72	45	0
Tamworth	b	77	34	0
Coonab'rn	n	68	30	0
P.Macqrie	b	65	49	0
Wilcannia	b	81	54	0
Murr'undi	b	61	40	0
Cassilis..	b	66	41	0
Mus'br'ok	b	70	40	0
Dubbo...	b	68	40	0
Menindie	b	76	47	0
Mudgee..	b	77	38	0
Maitland.	b	65	49	0
Hill End.	o	67	..	0
Newcastle	b	73	57	0 01
Orange..	b	58	33	0
Bathurst	b	60	31	0
18 65		Ea		
Forb's	b	71	50	0
Mt Vict'ria	o	53	35	0
Condob'ln	b	67	34	0
Picton..	b	63	43	0
Carcoar..	b	67	37	0
Wentw'th	b	69	43	0
Young...	b	62	40	0
Wollgo'ng	b	68	48	0 23
Hay....	b	62	40	0
Moss Vale	b	55	40	0 22
Euston...	–	..	..	..
Goulburn	b	63	41	0
Wagga...	b	67	40	0
Cape Geo.	b	65	45	0 02
Queanb'n	b	68	47	0
Deniliq'in	b	70	37	0
Moruya..	b	65	48	0
Kiandra..	c	73	37	0

Alb'ry	b	70	35	0
B'd'lla	b	67	39	0
Cooma	c	58	39	0
Eden	b	63	46	0
Gabo	–	..	..	..



Fine, wind N. Cloudy, wind E. T,storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30 24 F 59

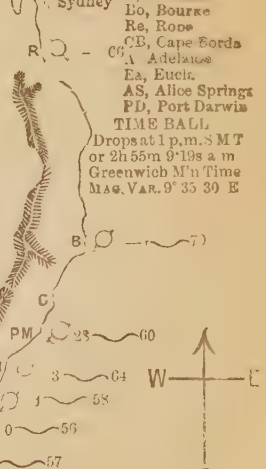
CLOUDY GENERALLY
SYDNEY c 60 50 Rain 0·173

14 30 19 F 53

14 30 19F 53 D

0 30 03 F 54

8 64 A 23 55 23 54 Re 8 54 P 52 M CO 13 52 WP 13 54 Go



Barometers risen about 0·20 on E coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 7.

Western Australia: Perth reports fine clear weather, light wind; Albany, gloomy weather, wind S.S.E. (light). South Australia: Weather cloudy and dry, barometers rising, with a N.W. wind at stations west of Cape Borda, and falling with N.E. wind to east of same station, rough sea running round coast, wind fresh; Streaky Bay, W., 18, gloomy; Port Augusta, N.E., 22, gloomy, no rain. Victoria: Weather fine round coast, with light easterly winds and rising barometers and smooth sea; Omeo, fine and calm; Cape Shank, S., 8, fine, sea rather rough; Low Head, Tasmania, S.E., 23, fine. New South Wales: Fine clear weather throughout colony, smooth sea, rising barometers, and light southerly winds on coast, warm and calm inland. Sea smooth. Queensland: Fine clear weather, light N.W. and S.E. winds, sea smooth. 3 p.m. Observations.—Victoria: Melbourne, S., [illegible], cloudy, temperature 59°; Portland, E., 13, cloudy, sea smooth, temperature 60°; Cape Otway, E., 18, cloudy, sea smooth, temperature 57°; Wilson's Promontory, E.N.E., 18, fine, temperature 57°. New South Wales: Wentworth, E.S.E., dull, temperature 66°; Deniliquin, calm, fine, temperature 70; Albury, W., light, cloudy, temperature 64°; Goulburn, calm, fine, temperature [illegible]°; Eden, E.S.E., 14, fine, light, temperature 57°; Moruya, S.E., 28, fine, rough sea, temperature 59°; Cape George, S.E., 1[illegible], fine, little sea, temperature 61°; Sydney S., 14, fine, sea smooth, temperature 59°; Newcastle, S.E., fine, sea smooth; Port Macquarie, S., 42, fine, sea smooth, temperature 67°; Menindie, S.E., dull, temperature 65°. New Zealand: Rain from N.E. generally over Islands, measured at Wellington 0·310. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 9 inches above summer level, Hay, 5 feet above summer level; Balranald, 8 feet 2 inches above summer level. Murray: At Albury, 6 feet 2 inches above summer level; Euston, 12 feet above summer level. Darling: At Wentworth, 10 feet 3 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 7 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

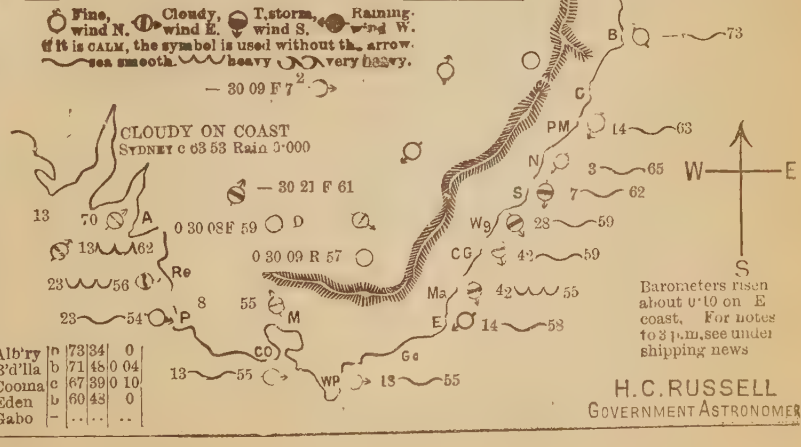
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to August 31 ..39·226
Total Rainfall from Jan. 1st to October 7. 30·577
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	w't	M'x	M.D	R'in
Casino..	b	81	45	0
Tenterfild	b	68	36	0
Moree....	b	84	52	0
Grafton..	b	79	54	0
Gl'n Inn's	b	78	30	0
Inverell..	b	73	39	0
Bourke ..	b	80	52	0
Narrabri	b	76	47	0
Armidale	b	64	.	0
Bendem'r	b	78	33	0
Gunned'h	b	84	33	0
Coonam'le	–	..	.	..
Tamworth	b	86	35	0
Coonab'rn	b	74	31	0
P.Macqrie	b	67	49	0
Wilcannia	b	83	47	0
Murr'undi	b	67	41	0
Cassilis..	b	73	31	0
Mus'br'ok	b	75	44	0
Dubbo...	b	69	47	0
Menindie	c	76	49	0
Mudgee..	b	73	38	0
Maitland.	b	70	51	0
Hill End.	b	67	..	0
Newcastle	o	72	47	0
Orange..	b	60	35	0
Bathurst	b	67	33	0
13 59		Ea		
Forb's	b	72	50	0
Mt Vict'ria	o	62	37	0
Condob'ln	b	66	34	0
Picton..	b	68	48	0
Carcoar..	b	8	53	0
Wentw'th	g	77	55	0
Young...	b	67	41	0
Wollgo'ng	b	68	48	0
Hay....	b	62	42	0
Moss Vale	b	65	44	0
Euston...	b	83	47	0
Goulburn	b	69	43	0
Wagga...	b	69	39	0
Cape Geo.	c	64	48	0
Queanb'n	b	68	44	0
Deniliq'in	b	63	43	0
Moruya..	b	56	50	0 20
Kiandra..	b	30	40	0

Alb'ry	b	73	34	0
B'd'lla	b	71	48	0 04
Cooma	c	67	39	0 10
Eden	b	60	43	0
Gabo	–	..	..	..

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clunce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0·10 on E coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 8.

Western Australia: Perth, fine, with light E. winds and smooth sea; Albany, dull, with light S.S.E. wind, rain 0·020. South Australia: Weather round coast cloudy, but no rain either falling or measured, sea smooth, barometers steady, but fallen slightly since yesterday, winds light from N. and variable; Port Augusta, N.E., 8, cloudy; Daly Waters, S., 8, fine. Victoria reports fine weather round coast, sea smooth, barometers steady, wind light from N.E. and E., heavy dew fell during night; Lake Entrance, fine, light E. wind, sea going down; Omeo, fine, light N. wind; Echuca, fine, fresh E. wind; Low Heads, fine, light N.W. wind. New South Wales: Fine at majority of stations, cloudy on the coast at Sydney, Newcastle, and Wollongong, and inland at and near Wilcannia, Menindie, Wentworth, and Mudgee; barometers rising, sea smooth, winds light from S., calm inland, no rain. Queensland: Fine weather, with fresh S.E. breeze, sea smooth. 3 p.m. Observations.—Victoria: Portland, E.S.E., 13, fine, sea smooth, temperature 64°; Cape Otway, E., 13, fine, sea very smooth, temperature 63°; Wilson's Promontory, N.E., 18, fine, sea slight, temperature 63°. New South Wales: Wentworth, N.W., fine, temperature 79°; Deniliquin, calm, fine, temperature 76°; Albury, calm, fine, temperature 66°; Goulburn, calm, fine, temperature 64°; Eden, N.E., fine, sea smooth, temperature 62°; Moruya, N.E., 42, fine, sea rough, temperature 62°; Cape George, N.E., fine, sea smooth, temperature 61°; Sydney, E.N.E, light, fine, sea smooth; Newcastle, S.E., cloudy, sea moderate; Port Macquarie, S., fine, sea smooth, temperature 67°; Menindie, N.E., strong, cloudy, temperature 79°. New Zealand telegraphs heavy rain from N.W. over N. Island, and from S.W. over S. Island; barometer at Wellington, 29·50; rain 0·410. State of Rivers:—Murrumbidgee: At Wagga, 4 feet 6 inches above summer level; Hay, 5 feet 9 inches above summer level; Balranald, 7 feet 11 inches above summer level. Murray: At Albury, 5 feet 10 inches above summer level; Euston, 12 feet above summer level. Darling: At Wentworth, 10 feet 3 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP,

COMPILED from TELEGRAMS for 9 A.M., OCT. 3 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 3 ..... 43·570.
Total Rainfall from Jan. 1st to October 3 ..... 30·577
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'th	M'x	M.S	R'in
Casino..	c	87 59		0
Tenterfild	–	..	..	..
Moree....	b	84 57		0
Grafton..	g	82 59		0
Gl'n Inn's	c	78 30		0
Inverell..	b	74 44		0
Bourke ..	b	85 58		0
Narrabri	b	79 53		0
Armidale	b	67 ..		0
Bendem'r	b	79 36		0
Gunned'h	b	89 43		0
Coonam'le	–	..	..	..
Tamworth	b	85 49		0
Coonab'rn	b	79 39		0
P.Macqrie	b	70 53		0
Wilcannia	g	81 69		0
Murr'undi	b	69 51		0
Cassilis..	g	75 52		0
Mus'br'ok	b	77 47		0
Dubbo...	b	73 55		0
Menindie	g	80 57		0
Mudgee..	g	83 51		0
Maitland.	b	72 53		0
Hill End.	b	68 ..		0
Newcastle	g	72 48		0
Orange..	b	64 45		0
Bathurst	b	70 48		0
13 62		Ea		
Corb's	g	73 52		0
Mt Vict'ria	c	61 41		0
Condob'ln	–	..	..	..
Picton..	o	65 45		0
Carcoar..	g	62 42		0
Wentw'th	c	76 57		0
Young...	b	70 58		0
Wollgo'ng	c	67 52		0
Hay....	b	77 50		0
Moss Vale	b	66 42		0
Euston...	b	73 56		0
Goulburn	g	69 46		0
Wagga...	b	73 51		0
Cape Geo.	b	61 45		0
Queanb'n	b	79 58		0
Deniliq'in	b	76 46		0
Moruya..	b	61 48		0
Kiandra..	–	..	..	..

Alb'ry	b	77	42	0
B'd'lla	b	66	41	0
Cooma	n	68	32	0
Eden	b	65	46	0
Gabo	–	..	..	..

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 10.

Western Australia: Fine clear weather and light E. wind at Perth; gloomy at Albany, with light N. wind and very smooth sea. South Australia reports light rains general throughout, and still threatening; winds light from W.N.W. and N.E.; sea smooth, barometers steady; no rain, inland stations not received; Port Augusta, gloomy, S., 8. Victoria: Cloudy all round coast, with light westerly winds, falling barometers, and moderately rough sea; Cape Schank, gloomy, light S.E.; rains—Melbourne 0·050, Otway 0·060, Wilson's 0·220, Lake Entrance 0·400, Portland 0·020. Low Heads, Tasmania, W., 28, fine, barometer 29.660. New South Wales: Fine at majority of stations, cloudy on coast at Sydney and Moruya and inland, to S.W. at Wagga, Euston, and Wentworth; raining slightly at latter; sea smooth, rapidly rising barometers, and light N.E. winds on coast; for particulars see map. Queensland: Fine and warm with light S.E. and N.E. winds and smooth sea. 3 p.m. Observations.—Victoria: Melbourne, S., 8, cloudy, temperature 62°; Portland, W.S.W., 18, cloudy, sea smooth, temperature 59°; Cape Otway, W., 13, cloudy, sea moderate, temperature 62°; Wilson's Promontory W., 34, cloudy, sea rather rough, temperature 58°. New South Wales: Wentworth, calm, dull, temperature 60°; Deniliquin, calm, dull, temperature 72°; Albury, W., 10, cloudy, temperature 67°; Goulburn, W., fine, warm, temperature 75°; Forbes, calm, fine, temperature 75°; Eden, E.N.E., 20, fine, little easterly sea, temperature 62°; Moruya, N.E., 20, cloudy, close, temperature 65°; Cape George, S., 14, cloudy, sea smooth, temperature 70°; Sydney, S.S.W., 42, cloudy, sea smooth, temperature 67°, southerly squall with much dust and rain at 1.50 p.m.; Newcastle, N.W., fine, sea smooth; Port Macquarie, E.N.E., 42, hazy, sea smooth, temperature 73°; Menindie, calm, threatening, temperature 77°. New Zealand: Fine generally. State of Rivers.—Murrumbidgee: At Wagga, 3 feet above summer level; Hay, 4 feet 8 inches above summer level. Murray: At Albury, 6 feet above summer level; Euston, 11 feet 11 inches above summer level. Darling: At Wentworth, 10 feet 3 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 10 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 3 ....43 570.
Total Rainfall from Jan. 1st to October 19. 30 577
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.t	R'in
Casino..	b	84	47	0
Tenterfild	b	79	47	0
Moree....	b	87	63	0
Grafton..	b	81	52	0
Gl'n Inn's	b	80	44	0
Inverell..	b	75	47	0
Bourke ..	b	97	72	0
Narrabri	b	84	43	0
Armidale	b	73	43	0
Bendem'r	b	78	31	0
Gunned'h	-	..	..	..
Coonam'le	b	97	60	0
Tamworth	b	93	49	0
Coonab'rn	b	85	52	0
P.Macqrie	o	72	59	0
Wilcannia	b	85	68	0
Murr'undi	b	75	47	0
Cassilis..	b	73	52	0
Mus'br'ok	b	87	53	0
Dubbo...	b	82	52	0
Menindie	b	97	66	0
Mudgee..	b	88	36	0
Maitland.	b	73	50	0
Hill End.	b	68	..	0
Newcastle	b	78	59	0
Orange..	b	73	54	0
Bathurst	b	79	41	0
	Ea			
Forb's	g	76	55	0
Mt Vict'ria	b	71	44	0
Condob'ln	b	80	55	0
Picton..	b	81	54	0
Carcoar..	r	78	46	0
Wentw'th	b	97	55	0 03
Young...	g	79	63	0 02
Wollgo'ng	b	79	61	0
Hay....	b	78	60	0
Moss Vale	b	77	60	0
Euston...	c	94	52	0
Goulburn	b	87	37	0
Wagga...	g	80	54	0 06
Cape Geo.	b	75	59	0
Queanb'n	b	80	52	0 17
Deniliq'in	b	85	47	0
Moruya..	o	76	59	0
Kiandra..	b	84	50	0

Alb'ry	b	82	45	0 03
B'd'lla	g	80	39	0
Cooma	b	84	53	0
Eden	b	71	58	0
Gabo	-	..	..	..

Curve showing state of Barometer.

Fine, wind N. **Cloudy, wind E.** **T.storm, wind S.** **Raining. wind W.**
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockht'n
B, Brisbane
C, Clunce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·10 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 11.

South Australia: Reports heavy rains N. of Adelaide, over an inch being measured on some of the north areas. Rain also heavy on the Murray, but light in S. and W. of colony. Barometers falling; wind light from W.; sea smooth. Streaky Bay, W.S.W., 23, cloudy, rain 0·190; M'Donnell Bay, W., 13, cloudy; Port Augusta, S., 8, cloudy, rain 0·520. Rain: Adelaide, 0·190; Borda, 0·150; Alice Springs, 0·120. Victoria: Cloudy round coast; sea slight; barometers falling; wind light from W.; light misty rain during night, ceasing about daylight, measuring at Melbourne, 0·200; Cape Schank, 0·170; Wilson's Promontory, 0·080; Lake Entrance, 0·330; Omeo, 0·160; and Echuca, 0·120. Low Heads, Tasmania. N.E., 23, fine; barometer, 29·70. New South Wales: Weather cloudy; light N. winds and calms on coast, sea smooth. Rain has not extended on coast N. of Newcastle, nor inland N. of Orange; southerly winds prevail inland. For rainfall, &c. see weather map. Thunder storm with rain (0·075) from N.W. at 12.30 a.m., another from same quarter to S.E. at 4.55 p.m. Queensland: Fine weather prevails, with light S.E. and N.E. winds; broken clouds at Rockhampton. 3 p.m. Observations.—Victoria: Melbourne, S., 8, showery, temperature 55°; Portland, S.W., 23, fine, sea smooth, temperature 60°; Cape Otway, W., 8, fine, sea slight, temperature 58°; Wilson's Promontory, W.S.W., 3, gloomy, sea smooth, temperature 57°. New South Wales: Wentworth, S.W., dull, temperature 71°; Albury, N.W., cloudy, temperature 66°; Goulburn, W., dull, temperature 71°; Forbes, calm, cloudy, temperature 70°; Eden, S.W., 14, like rain, sea light, temperature 62°; Moruya, S.E., 14, heavy thunderstorm, moderate sea, temperature 60°; Cape George, N.E., 42, like storm, sea smooth, temperature 64°; Sydney, E.N.E., 14, cloudy, sea smooth, temperature 64°; Newcastle, N.E., dull, sea smooth; Port Macquarie, E., 14, cloudy, sea smooth, temperature 70°; Menindie, S., cloudy, temperature 74°. New Zealand: Heavy N.W. gale at Wellington and over Southern Island; 0·11 rain at Wellington. State of Rivers.—Murrumbidgee: At Wagga, 4 feet above summer level; Hay, 4 feet 6 inches above summer level; Balranald, 7 feet 6 inches above summer level. Murray: At Albury, 4 feet 3 inches above summer level; Euston, 11 feet 10 inches above summer level. Darling: At Wentworth, 10 feet 3 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

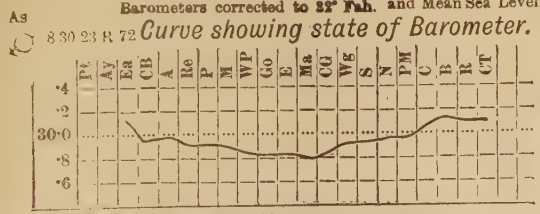
COMPILED from TELEGRAMS for 9 A.M., OCT. 11 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 23 years from Jan. 1st to Sept. 3 ....49 570.
Total Rainfall from Jan. 1st to October 11 ... 39·648
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	w't	M'x	Ma	R'in
Casino..	b	90	59	0
Tenterfild	–	..	..	..
Moree....	b	90	66	0
Grafton..	b	82	56	0
Gl'n Inn's	b	81	38	0
Inverell..	c	77	53	0
Bourke ..	c	98	72	0
Narrabri	c	87	62	0
Armidale	b	75	53	0
Bendem'r	–	..	..	..
Gunned'h	–	..	..	..
Coonam'le	b	91	60	0
Tamworth	b	95	53	0
Coonab'rn	g	88	51	0
P.Macqrie	g	74	62	0
Wilcannia	g	86	67	0
Murr'undi	b	79	53	0
Cassilis..	g	86	59	
Mus'br'ok	b	90	57	0
Dubbo...	c	86	64	0
Menindie	g	80	57	0
Mudgee...	c	90	57	0
Maitland.	g	84	63	0
Hill End.	c	70	..	0 11
Newcastle	g	86	60	0 06
Orange..	b	80	56	0 06
Bathurst	b	83	57	0
13 62		Ea		
Forb's	g	83	59	0
Mt Vict'ria	g	76	53	0 08
Condob'ln	g	68	55	0
Picton..	g	85	56	0 90
Carcoar..	b	70	64	0 02
Wentw'th	r	69	50	0 16
Young...	b	78	60	0
Wollgo'ng	g	90	56	0 10
Hay....	c	85	54	0
Moss Vale	c	77	53	0 11
Euston...	g	59	50	0
Goulburn	b	87	52	0
Wagga...	g	80	59	0
Cape Geo.	c	69	50	0
Queanb'n	c	80	52	0 10
Deniliq'n	g	77	49	0 05
Moruya..	o	70	58	0
Kiandra..	p	86	56	0
Alb'ry	g	85	53	0 15
B'd'lla	g	75	55	0
Cooma	g	84	52	0
Eden	p	71	56	0 09
Gabo	–	..	..	..



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 29 89 F 76

CLOUDY ON COAST
SYDNEY c 86 58 Rain 3·075.

28 30 C1 F 53

8 58 A 14 29 93E 56 D

14 29 88 F 57

18 55 Re

13 57 P 3 55 M

0 59 CO

WP 3 55 Go

Ma 14 63

E 14 59

CG 42 60

Wg 14 66

S 12 65

N 0 68

PM .0 66

B 71

C

R 8 69

As

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pr.
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

W — E
S

Barometers fallen about 0·10 on S coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 12.

South Australia: Heavy rains have fallen S. of Adelaide, but the weather now seems clearing; rising barometers in the W., with light S.S.E. wind and falling in E. of colony, with strong S. and S.W. winds. Rain: Adelaide, 0·600; Bordo, 0·250; Robe, 1·010; Streaky Bay, 0·020; stormy from S. Port Augusta, S., 13, cloudy; Port Darwin, fine, clear; Daily Waters, fine, clear. Victoria: Cloudy, and raining round coast, barometers falling, wind fresh from N.W. and W.S.W., sea smooth and moderate. Lake Entrance, S.E., 18, weather clearing Rain: Melbourne, 0·060; Portland, 0·370; Omeo, 0·700; Cape Schank, 0·200. Low Heads, Tasmania, N., 8, dull, barometer very low (29·440). New South Wales: Fine weather in northern half of colony, smooth sea on coast, with fresh W. and N. winds, and rapidly falling barometers; rainy, threatening weather inland to S.W. at Wentworth, Deniliquin, Wagga, Kiandra, Young, &c. (see map; thunderstorm 4·45 p.m. on the 11th, passed over S. of Sydney from N.W. to S.E. Queensland: Fine weather, with light S.E. and N.E. winds, barometers falling. 3 p.m. Observations.—Victoria: Barometers falling. Melbourne, S.S.W., 8, fine, temperature 56°; Portland, S.W., 34, showery, sea smooth, temperature 55°; Cape Otway, W., 28, showery, sea slight, temperature 55°; Wilson's Promontory, N.W., 28, showery, sea slight, temperature 51°.; hailstorms till 1.15 p.m. New South Wales: Wentworth, S.S.W., showery, temperature 60°; Deniliquin, S.W., raining, temperature 68°; Goulburn, calm, raining, temperature 64°; Eden, S.E., 14, cloudy, sea smooth, temperature 60°; Cape George, W., 42, like storm, sea smooth, temperature 72°; Sydney, E.N.E., 14, fine, sea smooth, temperature 69°; Newcastle, N.W., fine, hot, sea smooth; Port Macquarie, N.N.E., 42, thunderstorm, sea smooth, temperature 72°. New Zealand: A heavy N.W. gale is blowing on the North Island, with rain at Wellington, amount 0·41; wind S.W. in South Island. Heavy thunderstorms have passed over New South Wales to-day; at Quirindi the hail was remarkably heavy; at 6 p.m. a heavy thunderstorm, marked by frequent and brilliant flashes of lightning, passed over Sydney. A most remarkable barometric curve marks its passage in the Observatory record. Rain in heavy drops fell for a short time. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 11 inches above summer level. Murray: At Albury, 4 feet 8 inches above summer level. Darling: At Wentworth, 10 feet 3 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., OCT. 12 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to Sept. 3 .... 43·570
Total Rainfall from Jan. 1st to October 12.. 30·643
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W'r	W'x	M'n	R'in
Casino..	b	90	64	0
Tenterfild	b	79	51	0
Moree....	b	87	68	0
Grafton..	b	95	58	0
Gl'n Inn's	b	81	48	0
Inverell..	g	76	55	0 05
Bourke ..	–	..	..	.
Narrabri	b	87	65	0
Armidale	g	74	..	..
Bendem'r	g	81	35	0
Ganned'h	b	92	50	0
Coonam'le	b	85	56	0
Tamworth	b	90	55	0 07
Coonab'rn	g	87	42	0
P.Macqrie	c	73	61	0
Wilcannia	c	85	70	0
Murr'undi	r	79	62	0
Cassilis..	g	84	53	0
Mus'br'ok	b	84	55	0
Dubbo...	–	..	..	..
Menindie	b	72	54	0
Mudgee..	b	84	51	0
Maitland.	b	79	60	0
Hill End.	b	79	..	0
Newcastle	b	86	61	0
Orange..	b	75	49	0 06
Bathurst	b	77	52	0 02
8 59		Ea		
Forb's	g	78	55	0
Mt Vict'ria	g	71	53	0 05
Condob'lin	g	69	44	0
Picton..	–	..	..	..
Carcoar..	g	75	56	0 04
Wentw'th	g	65	49	0 02
Young...	g	73	55	0 22
Wollgo'ng	b	72	56	0
Hay....	g	86	45	0
Moss Vale	g	73	53	0
Euston...	b	61	41	0 03
Goulburn	b	78	54	0
Wagga...	r	67	54	0 31
Cape Geo.	b	67	52	0 07
Queanb'n	b	71	52	0 08
Deniliq'in	r	63	43	0 20
Moruya..	b	70	56	0 04
Kiandra..	r	54	39	0 80

Alb'ry	g	70	50	0 30
B'd'lla	g	71	53	0 26
Cooma	b	71	39	0 04
Eden	b	63	55	0 06
Gabo	–	..	..	..

As 8 30 27 R 70

Curve showing state of Barometer.

Pt Ay Ea CB A Re P M WP Go E Ma CG Wg N PM C B R CT

·4 ·2 30·0 ·8 ·6

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

CLOUDY ON S COAST
SYDNEY c 71 58 Rain 1·000.

56 29 75 E 58
28 29 69 E 48
14 29 70 E 56
34 55 A 48 53 13 53 Re 18 15 50 P 50 M 8 49 CO WP 0 53 Ma 14 63 E 14 69 Wg 14 71 CG 28 67 S 14 79 N 7 75 PM .0 70 C R 14 70 B 52

R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
Sydney

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Bords
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·98 a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30″ E

W — E
S

Barometers fall on about 0·25 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 13.

South Australia: Generally fine, prevailing wind S. to S.E., blowing fresh, squally at Cape Borda, also rough sea, heavy rain N. and light rain to the S. of Adelaide and Yorke's Peninsula; 0·05 of rain fell at Adelaide, 0·13 at Cape Borda, and 0·06 at Robe. The barometer has risen about 0·06. Victoria: Cloudy throughout, except at Echuca, showery at Melbourne, Wilson's Promontory, and Lake Entrance, heavy rain at the latter station in the previous 24 hours, light continuous rain at Omeo, hailstorm at Cape Otway; 0·48 rain at Melbourne, 0·20 at Omeo, 0·52 at Cape Otway, 4·49 at Wilson's Promontory, and 0·42 at Echuca. The barometer has risen about 0·16. New South Wales: Generally cloudy at the S. and S.W. stations, snowing steadily at Kiandra; 27 stations record rain—see weather map; showery at Bathurst and squally at Walcha, wind throughout the colony from S.W. to N.W. The barometer has fallen about 0·05, smooth sea generally on coast. Queensland: Fine, wind N. to N.W., blowing fresh at Townsville, 0·06 rain fell at Brisbane. 3 p.m. Observations.—Victoria, barometers rising; Melbourne, S.S.W., 13, fine, temperature 54°; Portland, S.W., 40, squally, sea smooth, temperature 54°; Cape Otway, W., 20, fine, sea moderate, temperature 53°; Wilson's Promontory, W.S.W., 28, squally, sea rough, temperature 52°. New South Wales: Wentworth, S., dull, temperature 60°; Albury, S.W., strong, like rain, temperature 60°; Goulburn, W., showery, temperature 58°; Eden, W.S.W., 42, cloudy, light sea, temperature 61°; Cape George, W., 42, cloudy, like storm, sea moderate, temperature 64°; Sydney, W., fresh, like rain, sea smooth, temperature 67°; Newcastle, N.W., fine, sea smooth; Port Macquarie, S.E., 28, fine, sea smooth, temperature 68°; Menindie, S., strong, fine, temperature 65°. New Zealand: Strong N.W. winds generally. State of Rivers:—Murrumbidgee: At Wagga, 3 feet 10 inches above summer level; Hay, 4 feet 6 inches above summer level. Murray: At Albury, 6 feet 5 inches above summer level; Euston, 11 feet 9 inches above summer level. Darling: At Wentworth, 10 feet 2 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

	W'th	M'x	Ma	R'in
	b	90	58	0 51
	b	79	48	0 18
	b	87	59	0
	b	92	54	0
	b	81	43	0 29
	b	77	44	0 30
	b	86	57	0
	b	87	60	0
	b	74	..	0
	b	82	34	0
	–	..	..	..
	b	85	50	0
	b	86	44	0 34
	c	83	41	0
	b	76	58	0
	g	75	51	0
	b	78	53	0
	g	89	52	0
	c	81	51	0
	b	78	52	0
	b	72	49	0 03
	c	80	49	0 17
	b	89	57	0
	c	65	..	0 12
	b	87	54	0
	u	66	40	0 12
	p	69	41	0 10
	Ga			
	g	76	55	0
	u	65	39	0 15
	g	57	38	0
	b	76	50	0 11
	g	65	44	0 70
	b	65	45	0 09
	u	63	49	0 18
	o	81	52	0 40
	g	67	47	0 17
	b	68	42	0
	b	60	43	0
	b	67	42	0 06
	g	65	47	0 45
	b	54	47	0 05
	c	68	44	0 18
	b	65	45	0 42
	b	68	49	0 29
	o	56	30	0 40

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 13 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 3 .... 43 570.
Total Rainfall from Jan. 1st to October 13. 30 798
Barometers corrected to 32° Fah and Mean Sea Level

WG, Wollongong,
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Prom
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·198 s m
Greenwich M'n Time
MAG. VAR. 9 35 39 E

Barometers risen about 0·10 in Victoria. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 14.

South Australia: Cloudy weather round coast, sea smooth, barometers falling in west of colony with light S.S.E. winds, and falling in east, the wind being from S. and S.S.W.; fine inland on telegraph line, and N. at Palmerton; rain, Adelaide 0·010, Borda 0·010, Macdonnell Bay 0·50, and showery still. Victoria: Cloudy all round coast, showery at Wilson's Promontory, wind strong from W. and S.W., squally, barometers rising, sea rather rough; Lake Entrance, squally from W.N.W., sea going down; Omeo, N.E., 8, raining measure 0·220; rain, Melbourne 0·010, Portland 0·030, Wilson's Promontory 0·120. New South Wales: Fine clear weather reported from all stations, smooth sea, light variable winds (see map), and rising barometers on coast; rain to the amount of 0·990 fallen since 9 a.m. yesterday at Bodalla and Moruya; calm and clear inland. Queensland: Cooktown, W.N.W., 8, fine and clear; Rockhampton N.E., fine and clear. 3 p.m. Observations.—Victoria: Barometer steady; Melbourne, gloomy, temperature 58°; Portland, W.S.W., 28, passing showers, moderate sea, temperature 56°; Cape Otway, W., 40, squally high sea, temperature 56°. New South Wales: Wentworth, S.W., dull, temperature 60°; Deniliquin, calm, fine, temperature 72°; Albury, W., moderate, cloudy, temperature 60°; Goulburn, W.N.W., light, fine, temperature 61°; Forbes, calm, cloudy, temperature 60°; Eden, N.E., 14, fine, light sea, temperature 59°; Moruya, N.E., 20, cloudy, moderate sea, temperature 60°; Cape George, S.E., 28, fine, little sea, temperature 63°; Sydney, E.S.E., 14, cloudy, smooth sea, temperature 60°; Newcastle, S.E., fine, smooth sea; Port Macquarie, S.S.E., unsettled, smooth sea, temperature 68°; Menindie, calm, fine, temperature 65°. New Zealand: Strong N.W. winds generally, moderate rains, 0·30 at Wellington. State of Rivers:—Murrumbidgee: At Wagga, 5 feet 5 inches above summer level; Hay, 4 feet 8 inches above summer; Balranald, 7 feet above summer level. Murray: At Albury, 7 feet 7 inches above summer level; Euston, 11 feet 9 inches above summer level. Darling: At Wentworth, 10 feet 2 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., OCT. 14 1888, with **NOTES** to 3 P.M

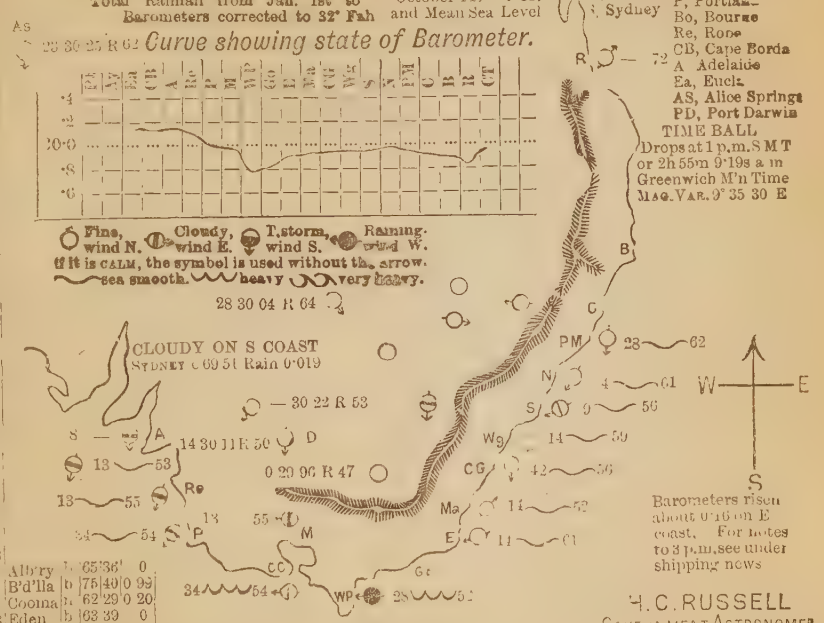
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 3 ....43 570
Total Rainfall from Jan. 1st to October 14. 39 817
Barometers corrected to 32° Fah and Mean Sea Level

Stations	w'th	w'x	M.S	R'in
Cashm...	b	85 44		0
Tenterfield	b	67 37		0
Moree....	b	77 51		0
Gunnedah	b	89 53		0
Gilgandra's	b	89 33		0
Liverpool	v	68 42		0
Bourke...	b	76 50		0
Narrandera	b	76 51		0
Armidale	b	71 ..		0
Bencubb'n	b	81 33		0
Geraldton	c	82 38		0
Cossack'le	–	.		..
Tamworth	c	71 36		0
Coonab'rn	b	69 38	0	03
P.Macqrie	b	76 54		0
Wilcannia	b	79 53		0
Murr'undi	b	65 47		0
Cassilis..	b	65 42		0
Mus'br'ok	b	73 46		0
Dubbo...	b	69 50		0
Menindie	b	68 45		0
Mudgee..	b	68 38		0
Maitland.	b	73 53		0
Hill End.	b	65 ..	0	08
Newcastle	b	87 50	0	01
Orange..	c	57 35	0	11
Bathurst	b	57 35	0	10
13 59		Ea		
Forb's	b	74 52		0
Mt Vict'ria	c	52 44	0	03
Condob'lin	b	63 23		0
Picton...	b	67 43		0
Cargoar..	c	56 40	0	28
Wentw'th	b	63 40		0
Young...	b	61 46	0	26
Wollgo'ng	b	73 45		0
Hay....	b	61 40		0
Moss Vale	b	59 41		0
Braidwood	b	65 36		0
Goulburn	b	67 37		0
Wagga...	b	61 11	0	16
Cape Geo.	b	77 46		0
Queanb'n	b	61 42		0
Denilq'in	b	62 36		0
Moruya..	b	71 50	0	98
Kiandra..	b	50 20		0

Albury	b	65 36		0
B'd'lla	b	75 40	0	99
Cooma	b	62 29	0	20
Eden	b	63 39		0
Gabo	–	..		..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 15.

South Australia: Weather cloudy, but no rain either falling or measured, winds round coast very light and variable, barometers falling in W. and rising in E. of colony; Streaky Bay, fine and clear; Port Augusta, calm and fine; Daly Waters, fine, clear, no rain; fine weather on overland telegraph route. Victoria: Cloudy round coast, showery at Otway and Portland, sea rough, winds fresh from S.W., W., and N.W.; barometers rising. Rain—Otway, 0·150; Portland, 0·120; Wilson's Promontory, 0·030. Tasmania: Low Heads, weather fine and clear with fresh W. wind and low barometer New South Wales: Fine, clear weather all over colony; smooth sea, rising barometers and light N.W. winds on coast; calm and warm inland; light rains measured at Grafton and Port Macquarie. Queensland: Rockhampton, fine and clear, light S.W. winds; Brisbane, S.S.E., 3, fine, clear. 3 p.m. Observations.—Victoria: Barometers steady; Portland, S.S.W., 10, cloudy, rough sea, temperature 57°; Cape Otway, W., 8, fine, high sea, temperature 58°; Wilson's Promontory, W., 13, passing showers, rough sea, temperature 56°. New South Wales: Wentworth, S.W., fine, temperature 64°; Deniliquin, calm, fine, temperature 68°: Albury, N.W., fine, clear, temperature 64°; Goulburn, calm, fine, temperature 66°; Eden, E.N.E., 14, fine, little easterly, temperature 59°; Moruya, N.E., 20, fine, sea moderate, temperature 64°; Cape George, N.E., fine, sea smooth, temperature 65°; Sydney, N.E., fine, sea smooth, temperature 62°; Newcastle, S.E, fine, sea smooth; Port Macquarie, S. showery, temperature 67°. New Zealand: Strong N.W. winds generally; rain 0·20 at Wellington. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 6 inches above summer level; at Hay, 5 feet above summer level; at Balranald, 7 feet above summer level, Murray: At Albury, 8 feet 6 inches above summer level; at Euston, 11 feet 9 inches above summer level. Darling: At Wentworth, 10 feet 2 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 15 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 3 ..... 42·570
Total Rainfall from Jan. 1st to October 15 ..... 39·829
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'l	M'x	Ma	R'in
Casino..	–	..	..	..
Tenterfild	b	68 36		0
Moree....	b	77 49		0
Grafton..	b	81 48	0	51
Gl'n Inn's	b	80 33		0
Inverell..	b	67 38		0
Bourke ..	b	74 50		0
Narrabri	b	74 42		0
Armidale	b	61		0
Bendem'r	n	82 31		0
Gunned'h	–	..	..	..
Coonam'le	–	..	..	..
Tamworth	b	75 30		0
Coonab'rn	b	64 29		0
P.Macqrie	b	68 49	0	03
Wilcannia	b	71 52		0
Murr'undi	b	66 39		0
Cassilis..	b	65 31		0
Mus'br'ok	b	71 47		0
Dubbo...	b	66 42		0
Menindie	b	69 45		0
Mudgee..	b	70 37		0
Maitland.	b	70 42		0
Hill End.	b	65 ..		0
Newcastle	b	81 47		0
Orange..	b	56 35		0
Bathurst	b	59 33		0
18 61		Ea		
Forb's	b	69 51		0
Mt Vict'ria	b	59 51		0
Condob'ln	b	64 34		0
Picton..	b	62 37		0
Carcoar..	b	67 28		0
Wentw'th	b	68 33		0
Young...	b	63 41		0
Wollgo'ng	b	61 48		0
Hay....	b	67 41		0
Moss Vale	b	62 39		0
Euston...	b	71 40		0
Goulburn	b	68 33		0
Wagga...	b	64 40		0
Cape Geo.	b	67 45		0
Queanb'n	b	66 60		0
Deniliq in	b	63 43		0
Moruya..	g	67 53		0
Kjandra..	b	69 34		0

Alb'ry	b	65 40	0
B'd'lla	b	73 46	0
Cooma	n	67 32	0
Eden	–	..	..
Gabo	–	..	..

H. C. RUSSELL,
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—OCTOBER 17.

Western Australia: Fine, clear weather. light N. and S.E. winds, sea smooth. South Australia reports cloudy weather with light S.E. winds, rising barometers, and smooth sea; Streaky Bay, S.E., 18, dull; Port Augusta, S.E., 13, showery, rain, 0·040; Macdonnell Bay, S., 23, fine. Victoria: cloudy on coast, light S. and W.S.W. winds, barometers rising, sea slight; rain, Melbourne, 0·180, Portland 0·080, Wilson's Promontory 0·070, Lake Entrance 0·360, thunder showers. Low Heads, Tasmania, S.S.W., 8, fine, barometer 29·830. New South Wales: Cloudy weather prevails all over colony. For particulars see weather map. Barometers falling, sea smooth, winds light from S.W., and calm. Queensland: Brisbane, cloudy, with light N. winds, sea moderate from S.E. 3 p.m. Observations.—Victoria: Melbourne, S., 13, fine, temperature 59·; Portland, S., 23, cloudy, smooth sea, temperature 57·; Cape Otway, S., 8, fine, moderate sea, temperature 61·; Wilson's Promontory, S.W., 18, cloudy, smooth sea, temperature 55·. New South Wales: Wentworth. S., showery, temperature 62·; Albury, N.E., dull, temperature 65·; Goulburn, calm, raining, temperature 64·; Forbes, calm, showery, temperature 57·; Eden, S.W., 14, like rain, light sea. temperature 62·; Moruya, S.E., 20, showery, moderate sea, temperature 56·; Cape George, S., 42, raining, sea smooth, temperature 63·; Sydney, S.S.W., 14, raining, sea smooth, temperature 62·; Newcastle, calm, dull, sea smooth; Port Macquarie, N N.E., 14, dull, smooth sea, temperature 66·; Menindie, calm, raining, temperature 58·. New Zealand: Generally fine, with S.W. winds, but at Gisborne a strong S.E. wind is blowing. State of Rivers.—Murrumbidgee: At Wagga, 6 feet above summer level; at Hay, 4 feet 6 inches above summer level; at Balranald, 7 feet above summer level. Murray: At Albury, 8 feet above summer level; at Euston, 11 feet 8 inches above summer level. Darling: At Wentworth, 10 feet 1 inch above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 17 1881, with NOTES to 3 P.M

Sydney Observatory.

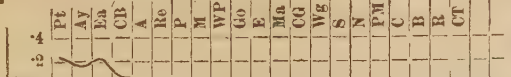
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 3 .... 43 570.
Total Rainfall from Jan. 1st to October 17.. 31·329
Barometers corrected to 32° Fah. and Mean Sea Level

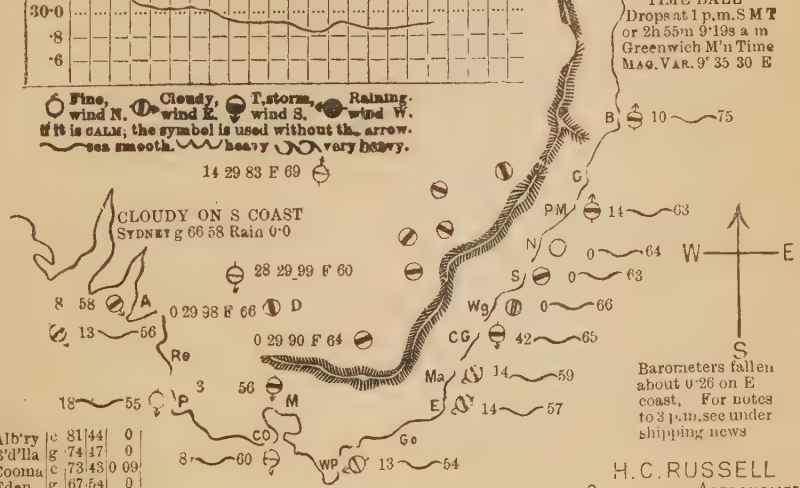
Stations	W't	M'X	M.I	R'in
Casino..	–	..	..	..
Tenterfield	–	..	..	..
Morse....	g	84 64		0
Grafton...	g	71 52		0
Gl'n Inn's	g	80 41		0
Inverell..	g	73 48		0
Bourke ..	g	84 66		0
Narrabri	g	76 51		0
Armidale	g	66 .		0 01
Bendem'r	r	82 31		0
Gunned'h	–	..	..	..
Coonam'le	–	..	..	..
Tamworth	c	88 55		0
Coonab'rn	p	79 55		0
P.Macqrie	g	72 60		0
Wilcannia	g	81 51		0
Murr'undi	g	69 46		0
Cassilis..	g	77 57		0
Mus'br'ok	g	78 55		0
Dubbo...	r	76 55	0	06
Menindie	g	89 57		0
Mudgee..	r	83 48		0
Maitland.	g	76 50		0
Hill End.	c	67	..	0
Newcastle	b	74 56		0
Orange..	r	69 43	0	17
Bathurst	r	72 40		0
8 69		Ea		
Forb's	–	..	..	..
Mt Vict'ria	r	66 49		0
Condob'lin	–	..	..	..
Picton..	g	74 54		0
Carcoar..	r	70 45		0
Wentw'th	g	84 57		0
Young...	–	..	..	..
Wollgo'ng	c	73 58		0
Hay....	–	..	..	..
Moss Vale	b	65 50		0
Euston...	g	85 57		0
Goulburn	c	68 54		0
Wagga...	p	78 50		0
Cape Geo.	g	67 55		0
Queanb'n	c	74 48		0
Deniliq'in	g	80 47		0
Moruya..	g	67 53		0
Kiandra..	g	69 34		0

Alb'ry	c	81	44	0
B'd'lla	g	74	47	0
Cooma	c	73	43	0 09
Eden	g	67	54	0
Gabo	–	..	..	..

As 13 30 23 R 67 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
A, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers fallen about 0·26 on E coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 18.

Western Australia reports fine clear weather, winds light, from north, sea moderate; rain at Albany, 0·020. South Australia: Squally weather prevails round southern coast, the wind being fresh from S. and S.E., the sea moderate, and the barometers rising slightly; Streaky Bay, S.E., 13, raining; Port Augusta, S., 3, cloudy; rain—Borda 0·010, Robe 0·130, Streaky Bay 0·650. Victoria: Cloudy and showery, sea light, barometers risen slightly since last night, wind fresh from S.; Lake Entrance, W.S.W., 23, light rain, foggy; Echuca, fine, fresh S. wind; rain—Otway 0·110, Portland 0·120, Wilson's Promontory 0·010; Low Heads, Tasmania, S., 23, fine. New South Wales: Cloudy and raining all over colony (for measurements at each station, see weather map); light southerly and westerly winds on coast, barometers falling, sea smooth at majority of stations, rising at Wollongong. Queensland: Brisbane, fine wind from N.W., moderate N.E. swell; Cooktown, fine, fresh E. wind; Rockhampton, N.W., 4, fine, clear. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S., 28, passing showers, temperature 53°; Cape Otway, S.S.E., 20, cloudy, moderate sea, temperature 54°; Portland, S.S.E., 34, cloudy, smooth sea, temperature 56°; Wilson's Promontory, E.S.E., 20, misty, moderate sea, temperature 59°. New South Wales: Wentworth, S.S.E., fine, temperature 63°; Albury, W., cloudy, like rain, temperature 62°; Moruya, S., 30, gale, raining thick, heavy sea, temperature 64°; Sydney, W.N.W., 14, raining, moderate sea, temperature 59°; Port Macquarie, N.W., 28, unsettled, smooth sea, temperature 61°; Menindie, S.W., strong cloudy, temperature 65°; Goulburn, S.W. strong, raining, temperature 62°; Eden, S.S.W., 20, raining, heavy easterly sea, temperature 58°; Cape George, S.E., 56, raining, rising sea, temperature 63°; Newcastle, N.W., showery, smooth sea. New Zealand: Fine generally, sharp shock of earthquake at Wanganui at 1h. 23m. yesterday. A very general rain has fallen in New South Wales, the heaviest being at Murrurundi, 3·15; on the Upper Darling about an inch has fallen, at Forbes 2·72, and in Southern districts generally from 1 to 2 inches. At 3 p.m. the rain was still falling generally. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 10 inches above summer level; at Hay, 4 feet 6 inches above summer level; at Balranald, 6 feet 10 inches above summer level. Murray: At Albury, 7 feet above summer level; at Euston, 11 feet 8 inches above summer level. Darling: At Wentworth, 9 feet 11 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 18 1884, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10h. 4m. 50·8s. *E.*

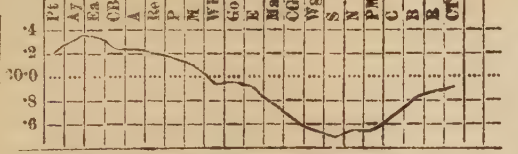
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 3 .... 49 570.
Total Rainfall from Jan. 1st to October 18.. 32 837
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.a	R'in
Casino..	b	85	49	0
Tenterfield.	r	68	58	0 30
Moree....	g	78	58	1 60
Grafton..	b	76	54	0 99
Gl'n Inn's	r	82	42	1 95
Inverell..	q	64	58	1 67
Bourke ..	b	80	58	1 00
Narrabri	p	74	53	1 24
Armidale	r	64	.	0 62
Bendem'r	r	81	30	1 15
Gunned'h	r	84	30	1 85
Coonam'le	–	68	55	1 05
Tamworth	c	78	53	0 92
Coonab'rn	p	68	54	1 48
P.Macqrie	b	71	62	0 83
Wilcannia	b	73	55	0
Murr'undi	p	66	56	3 15
Cassilis..	r	61	56	1 78
Mus'br'ok	r	60	53	1 55
Dubbo...	g	65	52	0 36
Menindie	b	79	49	0 10
Mudgee..	r	68	55	0 53
Maitland.	p	70	59	1 10
Hill End.	r	67	..	1 25
Newcastle	c	74	59	0 89
Orange..	r	55	50	1 35
Bathurst	r	55	51	1 35
18 59		Ea		
Forb's	g	65	50	2 72
MtVict'ria	r	57	47	1 66
Condob'lin	c	58	44	0 83
Euston..	r	72	55	0 85
Carcoar..	r	57	50	1 00
Wentw'th	q	71	46	0 08
Young...	r	59	50	1 63
Wollgo'ng	r	68	55	1 32
Hay....	b	77	42	0
Moss Vale	r	62	48	1 21
Euston...	b	72	46	0
Goulburn	r	61	44	1 10
Wagga...	r	63	53	0 59
Cape Geo.	–	..	.	..
Queanb'n	p	62	49	1 70
Deniliq'in	b	78	45	0
Moruya..	r	65	52	0 47
Kiandra..	r	40	12	2 30

Alb'ry	g	72	53	0
B'd'lla	r	50	49	2 02
Cooma	r	62	42	1 02
Eden	r	66	52	1 30
Gabo	–	..	..	..

As

8 30 34 R 63 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 29 83 F 69

RAINING IN N. S. W.
SYDNEY r 66 57 Rain 1·098

28 29 99 F 60

18 55 A 0 29 93 E 66 D

0 29 90 F 64

23 53

34 51 Re

23 56

28 52 P M

13 49 CO WP 18 58 Go

Ma 42 55

E 28 55

CG

Wg 28 59

S 16 58

N 4 64

PM 28 71

C

B 70

R

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pm
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clunce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. = M T or 2h 55m 9·193 s. in Greenwich M'n Time
MAG. VAR. 9° 35 30 E

W — E

S

Barometers fallen about 0·40 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL.
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—OCTOBER 19.

Western Australia: Fine and clear, light E. wind and calms; sea moderate. South Australia: Cloudy round coast, with fresh S. winds, but no rain fallen; sea smooth; barometers rising; Streaky Bay, S.E., 18, cloudy; Port Augusta, S., 23, fine; Port Darwin, N.W., 8, cloudy. Victoria: Cloudy weather, wind strong from S.E.; sea moderate; barometers rising; Lake Entrance, S.S.E., 40, showery, rain 0·280; Omeo, S., 18, showery, 0·400. Rain at Melbourne, 0·050; Portland, 0·010; Wilson's Promontory, 0·020. Tasmania: Low Heads, S.E., 8, cloudy. New South Wales: Heavy rains and strong S. gale on coast and E. of range; sea rough; barometers low, and still slightly falling; rainfall in weather map; fine inland on Darling; very heavy southerly gale at Sydney; greatest velocity, 90 miles per hour, at 5.48 a.m.; average for nine hours, 52 miles. Queensland: Fine, light W. and S.W. winds; sea moderate. 3 p.m. Observations:—Victoria: Barometers steady; Melbourne, S.W., 23, cloudy, temperature 56°; Portland, S., 23, cloudy, sea smooth, temperature 56°; Cape Otway, E., 14, fine, sea moderate, temperature 54°; Wilson's Promontory, N.E., 14, fine, sea moderate, temperature 59°. New South Wales: Wentworth, S., strong, fine, temperature 63°; Deniliquin: S., fine, temperature 68°; Albury, calm, cloudy, temperature 63°; Goulburn, S.W., raining, temperature 58°; Forbes, calm, cloudy, temperature 59°; Moruya, S.W., 56, showery, temperature 53°; Sydney, S., 56, raining, sea heavy, temperature 54°; Newcastle, S.W., squally, sea heavy; Menindie, S.W., fine, temperature 61°. New Zealand: Fine generally, with light winds. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 8 inches above summer level; at Hay, 4 feet 6 inches above summer level; at Balranald, 10 feet above summer level. Murray: At Albury, 6 feet 6 inches above summer level; at Euston, 11 feet 4 inches above summer level. Darling: At Wentworth, 9 feet 11 inches above sea level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

AUSTRALIA from TELEGRAMS for 9 a.m., [illegible] 1886, with Notes to 9 a.m. [illegible]

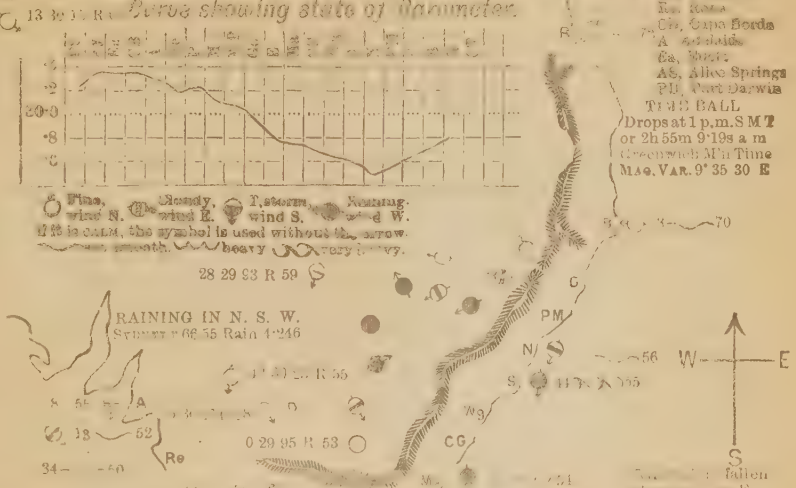
Sydney Observatory.

Lat. 33° 51' 41" S.; Long. 10h 4m 36 Sts. E.

Average Annual Rainfall for 23 years ... ... 51·461
Average for 23 years from Jan. 1st to Sept. 3 ... 49·576
Total Rainfall from Jan. 1st to October 19 ... 37·083
Barometers corrected to 32° Fah. ... Mean sea Level

Stations.	Wt	m'x	m'n	Rain
Casino..	b	84	47	0
Tenterfild.	g	69	47	0 10
Moree....	g	66	53	0 01
Grafton..	b	81	50	0
Gl'n Inn's.	r	80	45	0 12
Inverell..	q	64	50	0
Bourke ..	c	80	53	0
Narrabri	g	64	51	0 03
Armidale	r	60	45	0 42
Bendem'r	r	60	31	1 05
Gunned'h	–	.	.	.
Goulburn	g	65	51	0
Tamworth	p	64	46	0 21
Coonab'n	p	67	48	0 04
P.Macquie	–	...	...	...
Wilcannia	b	69	51	0
Murr'undi	r	92	49	0 10
Cassitis..	r	62	50	0 55
Mus'br'ok	r	73	48	0 98
Dubbo...	r	65	52	0 17
Menindie	b	68	45	0
Mudgee..	p	67	48	0 42
Maitland	r	70	53	1 75
Hill End.	c	60	...	1 05
Newcastle	q	75	51	1 49
Orange...	g	54	47	0 39
Bathurst	g	55	46	0 30
[illegible]		Ea		
Paris	p	66	50	0 22
Mt Vict'ria	r	50	39	2 14
Condob'lin	p	56	44	0 07
Picton..	o	69	52	2 16
Carcoar..	r	64	45	1 43
Wentw'th	b	67	47	0
Young...	p	59	50	0 28
Wollgo'ng	–	...	...	..
Hay....	b	69	47	0
Wagga Wagga	r	72	42	0 20
Euston..	b	71	43	0
Toulburn	r	53	41	0 72
Wilcannia	g	61	52	[illegible]
Cape Geo.	–	...	...	...
Queanb'n	g	55	45	0 05
Deniliq'n	b	70	48	[illegible]
Moruya..	r	64	47	0 28
Kiandra...	r	40	12	1 2[illegible]

Albury	g	64	45	0 01
B'd'lla	r	58	45	2 79
Wooma	m	58	38	0 20
Eden	r	56	49	1 70
Sabo				



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 19.

Western Australia: Fine and clear, light E. wind and calms; sea moderate. South Australia: Cloudy round coast, with fresh S. winds, but no rain fallen; sea smooth; barometers rising; Streaky Bay, S.E., 18, cloudy; Port Augusta, S., 23, fine; Port Darwin, N.W., 8, cloudy. Victoria: Cloudy weather, wind strong from S.E.; sea moderate; barometers rising; Lake Entrance, S.S.E., 40, showery, rain 0·280; Omeo, S., 18, showery, 0·400. Rain at Melbourne, 0·050; Portland, 0·010; Wilson's Promontory, 0·020. Tasmania: Low Heads, S.E., 8, cloudy. New South Wales: Heavy rains and strong S. gale on coast and E. of range; sea rough; barometers low, and still slightly falling; rainfall in weather map; fine inland on Darling; very heavy southerly gale at Sydney; greatest velocity, 90 miles per hour, at 5.48 a.m.; average for nine hours, 52 miles. Queensland: Fine, light W. and S.W. winds; sea moderate. 3 p.m. Observations:—Victoria: Barometers steady; Melbourne, S.W., 23, cloudy, temperature 56·; Portland, S., 23, cloudy, sea smooth, temperature 56·; Cape Otway, E., 14, fine, sea moderate, temperature 54·; Wilson's Promontory, N.E., 14, fine, sea moderate, temperature 59·. New South Wales: Wentworth, S., strong, fine, temperature 63·; Deniliquin: S., fine, temperature 68·; Albury, calm, cloudy, temperature 63·; Goulburn, S.W., raining, temperature 58·; Forbes, calm, cloudy, temperature 59·; Moruya, S.W., 56, showery, temperature 53·; Sydney, S., 56, raining, sea heavy, temperature 54·; Newcastle, S.W., squally, sea heavy; Menindie, S.W., fine, temperature 61·. New Zealand: Fine generally, with light winds. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 8 inches above summer level; at Hay, 4 feet 6 inches above summer level; at Balranald, 10 feet above summer level. Murray: At Albury, 6 feet 6 inches above summer level; at Euston, 11 feet 4 inches above summer level. Darling: At Wentworth, 9 feet 11 inches above sea level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

SYNOPTIC from Telegrams for 9 A.M., [illegible] 1886, with Notes to 9 P.M.

By Sydney Observatory.

Lat. 33° 51′ 41″ S. : Long. 151° 12′ 50 Sts. E.

Average Annual Rainfall for 23 years . . . . . 51·403
Average for 23 years from Jan. 1st to Sept. 3 . . 39·570
Total Rainfall from Jan. 1st to October 19 . . 37·083
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	Wt	Bar.	Tkn	Rain
Casino	b	84	41	0
Tenterfield	g	69	47	0 10
Moree	g	66	53	0 01
Grafton	b	81	56	0
Cl'n Ind's	r	80	55	0 12
Inverell	q	64	50	0
Bourke	c	80	53	0
Narrabri	g	68	51	0 03
Armidale	r	60	55	0 42
Bendem'r	r	60	51	1 05
Gunned'h	–	.	.	.
Goulburn	g	65	51	0
Tamworth	p	61	46	0 21
Coonab'rn	p	67	48	0 04
P. Macquie	–			
Wilcannia	b	69	51	0
Murr'undi	r	92	49	0 10
Cassilis	r	62	50	0 55
Mus'br'ok	r	73	48	0 98
Dubbo	r	85	52	0 17
Menindie	b	68	45	0
Mudgee	p	67	48	0 42
Maitland	r	75	53	1 75
Hill End	c	60	.	1 95
Newcastle	q	75	51	1 49
Orange	g	54	47	0 39
Bathurst	g	55	46	0 30
[illegible]		Ea		
Forbes	p	66	50	0 22
Mt Vict'ria	r	90	39	2 14
Condob'lin	p	56	44	0 07
Picton	b	69	52	2 16
Carcoar	r	64	45	1 43
Wentworth	b	67	47	0
Young	p	59	50	0 28
Wollongong	–	.	.	.
Hay	b	69	47	0
Mt Kos'ko	r	62	42	6 20
Gulgong	b	71	43	0
Goulburn	r	55	41	0 72
Wagga	g	61	52	0 03
[illegible]				
[illegible]	g	55	45	0 05
[illegible]	b	70	48	0
Maryborough	r	64	47	0 28
[illegible]	r	40	12	1 20
Albury	g	64	50	0 01
B'll'la	b	58	45	2 79
Coonamble	m	58	38	0 20
Eden	c	56	49	1 70
Cabo	–			

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. Storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
Smooth. Heavy

RAINING IN N. S. W.
SYDNEY r 66 55 Rain 4·246

Barometers fallen [illegible] coast. For Notes to 3 p.m. see under Ship [illegible]

WG Wellington
WO [illegible]
[illegible]
B Bourke
C Cape Borda
A Adelaide
Es Esperance
AS Alice Springs
PD Port Darwin

TIME BALL
drops at 1 p.m. S.M.T. or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—OCTOBER 20.

Western Australia: Fine and clear, with light E. winds and moderate sea. South Australia: Weather squally, light rain in places, heavy rain towards N. coast; over one inch at Southport; rough sea, fresh S.E. winds and rising barometers on S. coast; rain, Adelaide, 0·100; Borda, 0·080; Robe, 0·050; Port Augusta, 0·010, cloudy; Port Darwin, calm and cloudy; Daly Waters, S.E., 18, fine. Victoria: Cloudy, showery weather, sea rough, barometers falling, winds fresh from S. and S.W.; showers from S.W. at Lake Entrance; rain, Otway, 0·160; Portland, 0·250; Low Heads, W., 23, fine. New South Wales: Weather clear, wind still fresh from S.W.; barometers rising to N., falling S. of Wollongong; sea going down; (for particulars see Weather Map); fine breaking of weather at sundown on 19th. Queensland: Fine clear weather with light W. and S.W. winds, sea moderate. 3 p.m. Observations.—Victoria: Melbourne, S.W., 18, showery, temperature 51°; Cape Otway, S., 48, showery, rough sea, temperature 44°; Wilson's Promontory, W., 23, showery, moderate sea, temperature 51°. New South Wales: Wentworth, S.S.W., strong, showery, temperature 60°; Deniliquin, S.W., stormy, temperature 64°; Albury, W., strong, cloudy, temperature 60°; Goulburn, W., fine, temperature 62°; Forbes, calm, fine, temperature 67°; Cape George, S., 42, fine, heavy sea, going down, temperature 56°; Sydney, E.N.E., 14, fine, moderate sea, temperature 61°; Newcastle, S.E., fine, moderate sea; Port Macquarie, S.S.W., 14, cloudy, smooth sea, temperature 65°; Menindie, N.W., strong, fine, temperature 66°. State of Rivers:—Murrumbidgee: At Wagga, 6 feet 3 inches above summer level; Hay, 4 feet 6 inches above summer level. Murray: At Albury, 6 feet 4 inches above summer level; Euston, 11 feet above summer level. Darling: At Wentworth, 9 feet 9 inches above summer level; Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 20 1881, with NOTES to 3 P.M

Sydney Observatory.

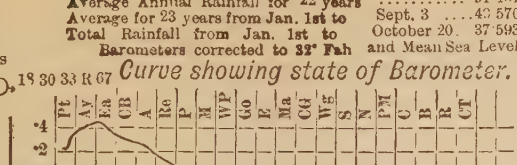
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 3 ....43·570
Total Rainfall from Jan. 1st to October 20. 37·593
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	W'x	M.T	R'in
Casino..	b	84	51	0
Tenterfild	b	68	46	0
Moree....	b	65	51	0
Grafton..	b	74	53	0
Gl'n Inn's	c	79	43	0 12
Inverell..	b	66	47	0 14
Bourke ..	b	80	55	0
Narrabri	b	66	48	0
Armidale	g	53	..	0 37
Bendem'r	b	82	45	0 60
Gunned'h	b	70	44	0 01
Coonam'le	b	63	46	0
Tamworth	b	59	44	0 22
Coonab'rn	b	53	38	0 01
P.Macqrie	q	63	55	0 14
Wilcannia	b	72	50	0
Murr'undi	b	66	49	0 57
Cassilis..	b	58	41	0 38
Mus'br'ok	b	59	43	1 29
Dubbo...	b	61	49	0 16
Menindie	b	70	48	0
Mudgee..	b	60	46	0
Maitland.	g	68	50	0 30
Hill End.	b	60	..	0 10
Newcastle	r	68	48	0 85
Orange..	b	55	39	0 05
Bathurst	b	50	43	0 10
Forb's	b	65	45	0
Mt Vict'ria	b	44	39	0 71
Condob'lin	b	65	38	0
Picton..	g	59	48	0 10
Carcoar..	b	55	42	0 21
Wentw'th	g	72	49	0
Young...	b	60	45	0
Wollgo'ng	c	74	48	0 32
Hay....	g	73	42	0
Moss Vale	c	48	40	1 54
Euston...	c	74	48	0
Goulburn	b	50	41	0 43
Wagga...	b	63	40	0
Cape Geo.	c	56	49	1 51
Queanb'n	b	52	43	0
Deniliq'in	g	71	43	0
Moruya..	g	65	48	0 04
Kiandra..	b	50	16	0

Alb'ry	b	71	33	0
B'd'lla	–	..	..	..
Cooma	c	49	37	0 02
Eden	p	55	49	0 21
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T,storm, wind S. Raining w'nd W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. M T or 2h 55m 9·19s a.m Greenwich M'n Time
MAG. VAR. 9° 35 39 E

As 18 30 33 R 67

42 29 99 R 67

CLOUDY ON S COAST
SYDNEY g 56 50 Rain 0·510

42 30 24 R 55

42 30 01 S 53

42 29 91 F 52

8 54 A

23 51

34 51

40 47 P

13

54 M

34 46

18 54

Go

Ma 42 56

E 23 53

CG 42 56

Wg 14 57

S 16 54

N 14 54

PM 60

B 8 70

C

R

W E S

Barometers fallen about 0·15 on S coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

. Australia: Fine, with light E. winds and calms, sea no rain. South Australia: Cloudy weather round S. smooth, barometers rising very slowly, wind fresh from aky Bay, S.E., 23, cloudy, rain 0·040; Port Augusta, S., ; Port Darwin, S., 8, cloudy; Daly Waters, S.E., 23, n—Adelaide, 0·010; Borda, 0·010; Robe, 0·020. Vic- udy, showery, and squally round coast, wind strong arometers rising, sea rough; strong S W. gale increasing high sea at Lake Entrance. Rain—Melbourne, 0·129; 90; Portland, 0·140; Wilson's Promontory, 0·230. New es: Weather cloudy, with strong cold S.W. winds, sea barometers falling again; snowing at Hill End, Mount Victoria, Carcoar, Mossvale, Queanbeyan, and (For weather, wind, rain, &c., at each station see ap and list therein.) Queensland: Fine, with light S.E. inds, moderate S.E. swell at Cape Moreton, no rain. bservations.—Victoria: Barometers rising; Melbourne, squally with rain, temperature 49°; Portland, S., 34, owers, moderate sea, temperature 53°; Cape Otway, S., with rain, rough sea, temperature 56°; Wilson's y, S., 23, squally with rain, rough sea, temperature 50°; ince, S.W., 40, threatening, very high sea, temperature South Wales: Wentworth, S., strong, fine, temperature nquin, S.W., strong, fine, temperature 68°; Albury, ng, cloudy, temperature 60°; Goulburn, W., cloudy, e 59°; Forbes, calm, cloudy, temperature 55°; Eden, showery, heavy sea, temperature 54°; Moruya, S.W., with rain, heavy sea, temperature 52°; Cape George, owery, heavy sea, temperature 58°; Sydney, W.S.W., oderate sea, temperature 52°; Newcastle, W., dull, ; Port Macquarie, S.W., 56, squally, moderate sea, e 60°; Menindie, S.W., stormy, temperature 60°. New ine generally, heavy N.E. gale on S. Island, moderate north. State of Rivers:—Murrumbidgee: At Wagga, hes above summer level; at Hay, 4 feet 6 inches above el; at Balranald, 6 feet 6 inches above summer level. t Albury, 6feet 4 inches above summer level; at Euston, hes above summer level. Darling: At Wentworth, 9 es above summer level; at Pooncarie, Menindie, and summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 21 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 3 .... 43·570.
Total Rainfall from Jan. 1st to October 21. 37·595
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.S	R'in
Casino..	b	80	45	0
Tenterfild	–	..	..	..
Moree....	–	..	..	..
Grafton..	b	85	53	0
Gl'n Inn's	b	79	40	0
Inverell..	–	..	..	..
Bourke ..	b	75	50	0
Narrabri	–	..	..	..
Armidale	b	60	..	0
Bendem'r	r	80	41	0
Gunned'h	–	.	..	..
Coonam'le	–	..	..	.
Tamworth	–	..		..
Coonab'rn	g	68	39	0
P.Macqrie	q	70	47	0
Wilcannia	b	67	41	0
Murr'undi	–	..	..	..
Cassilis..	g	65	44	0
Mus'br'ok	g	71	43	0
Dubbo...	c	57	44	0
Menindie	b	69	42	0
Mudgee..	r	74	39	0 70
Maitland.	c	74	55	0
Hill End.	s	60	..	0
Newcastle	b	68	48	0
Orange..	s	59	34	0 07
Bathurst	c	60	37	0
18 58		Ea		
Forb's	c	61	47	0 12
Mt Vict'ria	s	59	33	0 02
Condob'ln	g	45	35	0 02
Picton..	g	69	45	0
Carcoar..	s	57	37	0 29
Wentw'th	b	65	39	0
Young...	r	64	41	0 25
Wollgo'ng	–	..	.	..
Hay....	g	71	39	0
Moss Vale	s	60	34	0 13
Euston...	b	66	37	0
Goulburn	s	62	32	0 20
Wagga...	g	64	33	0
Cape Geo.	s	66	42	0 79
Queanb'n	s	67	38	0 43
Deniliq'in	g	61	38	0 04
Moruya..	–	..	.	..
Kiandra..	s	40	15	0 80

Alb'ry	b	68	39	0
B'd'lla	–	.	..	..
Cooma	m	61	33	0 03
Eden	r	61	46	0
Gabo	–	..	..	..

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—OCTOBER 22.

Western Australia: Albany, fine, light E. wind, moderate sea; Perth, fine, clear. South Australia: Cloudy weather round S. coast, wind light from S., barometer steady; Streaky Bay, E., 13, dull; Port Augusta, fine, light S.E. wind; Cape Borda, cloudy, E.S.E., 13; fine on overland telegraph line, wind strong from S.E. Victoria: Showery all round the coast, wind strong from S.W., barometers rising, sea moderate, squally; Echuca, fine and calm; Lake Entrance, cloudy, weather clearing, sea tremendous, wind strong from S.S.W., rain ranges from 0·020 to 0·140. Low Heads and Tasmania, fine, fresh W. wind. New South Wales: Weather still unsettled, strong S.W. and S. winds prevail all along coast, and the sea is rough; raining S. near border, but clear at stations to north; strong southerly winds inland, even as far west as the Darling and Riverina districts. Queensland: Fine, with light S.W. winds, sea moderate. Victoria, barometers rising. 3 p.m. Observations.—Cape Otway, S., 18, passing showers, moderate sea, temperature 49.; Portland, S., 20, fine, sea smooth, temperature 55°; Wilson's Promontory, WSW., 18, clear, smooth sea, temperature 52°. New South Wales: Wentworth, S., fine, clear, temperature 62°; Albury, W., fine, clear, temperature 60°; Moruya, S.S.W., cloudy, heavy sea; Sydney, S., fine, clear, sea moderating, temperature 57°; Menindie, S., 10, fine, temperature 61°; Deniliquin, S., cloudy, cool, temperature 62°; Goulburn, S., fine, temperature 58°; Eden, S.W., fine, heavy sea, temperature 55°; Cape George, S., 30, fine, heavy sea, temperature 59°; Newcastle, S., cloudy, heavy sea. New Zealand: Barometers falling fast, heavy N.W. gale in North Island, and S.E. in South Island; barometers all low, 294 to 295. State of Rivers:—Murrumbidgee: At Wagga, 7 feet 9 inches above summer level; at Hay, 5 feet above summer level; at Barramald, 3 feet 6 inches above summer level. Murray: At Albury, 6 feet 3 inches above summer level; at Euston, 10 feet 11 inches above summer level. Darling: At Wentworth, 9 feet 8 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 22 1881, with NOTES to 3 P.M

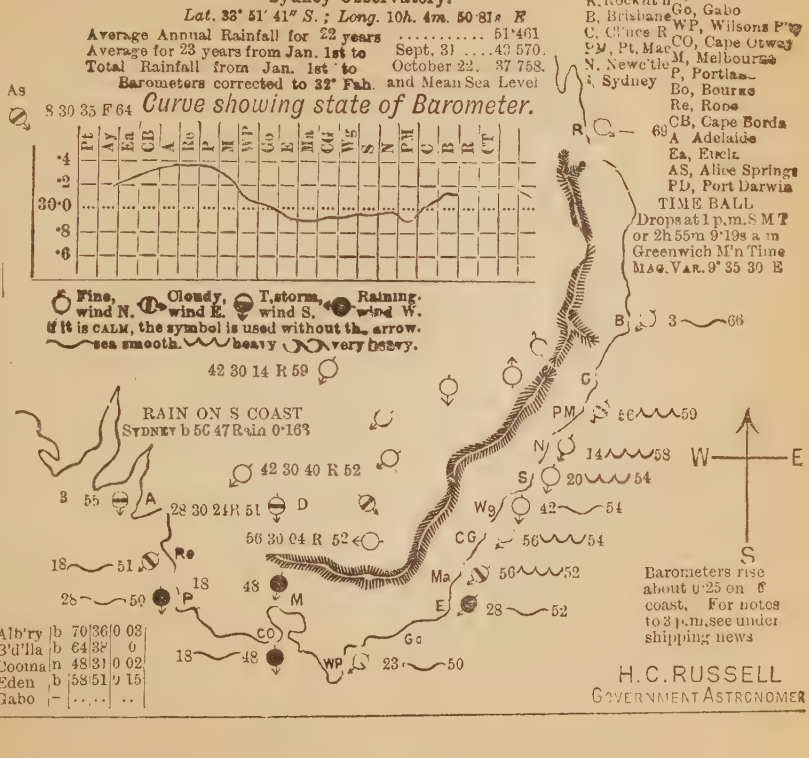
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 31 .... 43 570.
Total Rainfall from Jan. 1st to October 22. 37 758.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W'r	W'S	M.	R'in
Casino..	b	72	34	0
Centerfld	–	..	..	..
Coree....	–	..	..	..
Grafton..	b	83	57	0
H'n Inn's	b	80	35	0
Inverell..	b	58	36	..
Jourke ..	b	72	47	0
Karrabri	–	..	..	0
Armidale	b	49	..	0
Bendem'r	g	56	36	0
Canned'h	–	..	..	.
Coonam'le	b	70	42	0
Camworth	b	59	31	0
Coonab'rn	b	57	38	0
P. Macqrie	q	63	47	0
Vilcannia	b	61	47	0
Murr'undi	–	..	..	..
Cassilis..	b	58	41	0
Mus'br'ok	b	62	40	0
Dubbo...	b	66	44	0
Menindie	b	69	43	0
Mudgee..	g	68	41	0
Maitland.	b	64	47	0 10
Hill End.	b	60	..	0
Newcastle	b	70	46	0 15
Orange..	g	49	34	0
Bathurst	b	50	35	0 03
		Ea		
Forb's	b	62	43	0
Mt Vict'ria	c	43	34	0
Goulob'rn	b	58	38	0
Picton..	b	54	43	0
Marcoar..	g	47	38	0 08
Wentw'th	b	65	40	0
Young...	b	61	40	0
Wollgo'ng	b	59	45	..
Hay....	b	64	40	0
Moss Vale	b	50	35	0 11
Euston...	b	63	39	0
Goulburn	g	54	33	0 06
Wagga...	b	62	38	0 02
Cape Geo.	b	64	44	0
Queanb'n	b	60	38	0
Deniliq'in	g	60	40	0
Moruya..	c	68	43	0
Kiandra..	b	41	16	0

Alb'ry	b	70	36	0 03
B'd'lla	b	64	38	0
Cooma	n	48	31	0 02
Eden	b	58	51	0 15
Gabo	–	..	..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER.

METEOROLOGICAL REPORTS.—October 24.

Western Australia: South, fine, and calm; Albany, threatening; n, light S.E. wind, sea very smooth. South Australia: Reports weather at majority of stations, cloudy north of Port gusta, wind light from E., cloudy at Robe, Borda, Streaky Bay, Daly Waters; Port Darwin, S.E., 8, fine. No rain, barome- s falling. Victoria: Cloudy round coast, sea smooth, barome- s falling slowly, wind light from S.E. Rain: Melbourne, 40; Portland, 0·020; Echuca, fine, S.E., 13: Omeo, broken uds, light S.E. wind; Lake Entrance, light E.S.E. wind, wea- r cloudy; Low Heads, fine, with light N.W. wind. New South ales: Cloudy on coast, wind fresh from S. and S.W., sea heavy Eden and Moruya, fine inland, with light S.E. winds and calms. ght rains measured at Sydney, Queanbeyan, and Eden. (See p.) Barometers rising. Queensland. Fine, fresh S W. wind, moderate. 3 p.m. Observations.—Victoria: Portland, S.E., clear, sea smooth, temperature 54·; Melbourne, S.S.W., 13, e, temperature 59·; Lake Entrance, E., 28, fine, sea rather igh, temperature 60·; Cape Otway, S.E., 8, cloudy, sea slight, nperatuare 58·; Wilson's Promontory, N.E., 18, cloudy, sea ght, temperature 59·. New South Wales: Wentworth., W., e, temperature 66·; Deniliquin, W., fine, temperature 60·; bury, S.W., light, cloudy, temperature 65·; Goulburn, calm, e, temperature 63·; Eden, E.S.E., 14. cloudy, sea smooth, tem- rature 55·; Moruya, S.E., 28, fine, sea moderate, temperature ; Cape George, S., 28, fine, sea smooth, temperature 62·; dney, S.S.E., 28, cloudy, sea smooth, temperature 58·; Newcas- , S.E., dull, sea moderate; Port Macquarie, S., 42, cloudy, sea ooth. temperature 65·; Menindie, calm, sultry, temperature . New Zealand: S.W. gale generally on Sunday, but S.E. at uff; 0·32 rain at Wellington, to-day S.W. gale generally, rometer 29·2 at Gisbourne, rain at Wellington 1 02, with high , barometers all low, Wellington 29·3. State of Rivers:—Mur- nbidgee: At Wagga, 10 feet above summer level; at Hay, 6 t 5 inches above summer level; at Balranald, 6 feet 6 inches ove summer level. Murray: At Euston, 10 feet 10 inches ove summer level. Darling: At Wentworth, 9 feet 6 inches ove summer level; at Pooncarie, Menindie, and Wilcannia, mmer level.

WEATHER MAP.

COMPILED from **TELEGRAMS** for 9 A.M., OCT. 24 1881, with **NOTES** to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 31 .... 43 570.
Total Rainfall from Jan. 1st to October 24. 37 797.
Barometers corrected to 32° Fah and Mean Sea Level

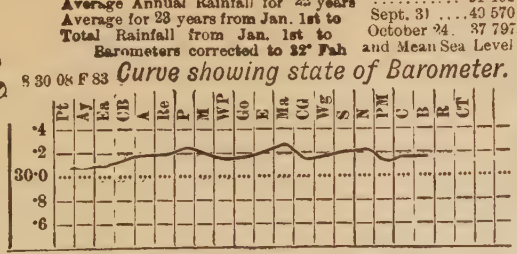
Stations.	W't	M'x	M.	R'in
Casino..	b	79	44	0
Tenterfild	b	68	41	0
Moree....	–	..	..	..
Grafton..	b	73	53	0
Gl'n Inn's	b	80	29	0
Inverell..	–	..	..	..
Bourke ..	–	..	..	..
Narrabri	–	..	..	.
Armidale	b	61	.	0
Bendem'r	b	62	39	0
Ganned'h	–	.	.	.
Coonam'le	b	72	46	0
Tamworth	–	..	..	.
Coonab'rn	g	71	35	0
P.Macqrie	b	67	48	0
Wilcannia	b	69	48	0
Murr'undi	–	.	.	..
Cassilis..	g	68	49	0
Mus'br'ok	–	..	.	..
Dubbo...	b	68	44	0
Menindie	b	70	49	0
Mudgee..	g	74	32	0
Maitland.	g	66	45	0
Hill End.	b	64	.	0
Newcastle	g	67	54	0
Orange..	b	57	38	0
Bathurst	b	63	36	0
13 64		Ea		
Forb's	g	68	49	0
Mt Vict'ria	g	59	39	0
Condob'lin	b	65	33	0
Picton..	g	65	43	0
Carcoar..	g	64	34	0
Wentw'th	b	71	47	0
Young...	b	63	37	0
Wollgo'ng	c	63	59	0
Hay....	b	71	39	0
Moss Vale	g	57	42	0
Euston...	b	55	40	0
Goulburn	g	65	42	0
Wagga...	g	68	33	0
Cape Geo.	b	65	45	0
Queanb'n	g	66	37	0 10
Deniliq'in	b	69	37	0
Moruya..	b	62	44	0
Kiandra...	g	42	37	0

Alb'ry	–	..	..	..
B'd'lla	b	67	35	0
Cooma	g	60	38	0
Eden	g	62	47	0 02
Gabo	–	..	..	..

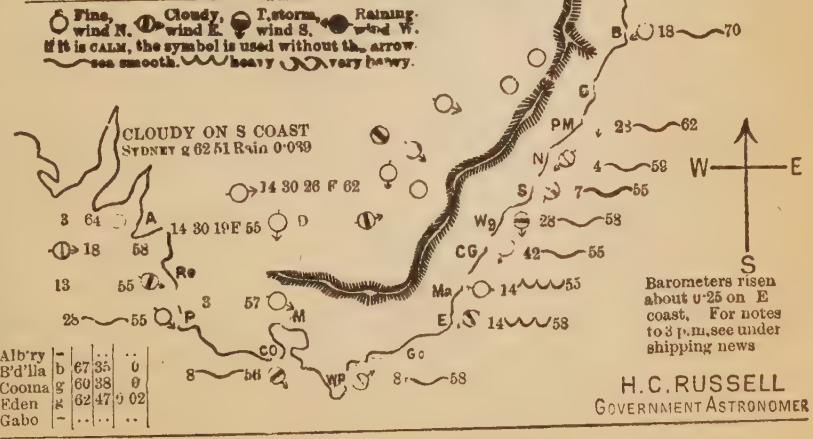
As

8 30 08 F 83

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clnce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0·25 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 25.

Western Australia: Fine, with light E.N.E. and S.E. winds; sea smooth. No rain. South Australia: Fine round south coast, with light E. and S.E. winds, rising barometers and smooth sea; streaky Bay, S.E., 18, fine; Port Augusta, S., 8, fine; Daly Waters, N.W., 8, fine; Port Darwin, N.W., 8, fine; Powell's and Tennant's Creek, fine. Victoria: Fine weather at generality of stations, cloudy at Cape Otway; smooth sea, steady barometers, and light S.E. winds on coast. Lake entrance fine, light E. wind, sea rather rough; Omeo, fine, light S.W. wind. Low Heads, Tasmania, N.E., 13 fine. New South Wales: Fine and clear in south-west and west of colony, cloudy on mountains and in the north-west; light rain at Casino, Tenterfield, Moss Vale, Picton, and Goulburn. (See weather map.) Smooth sea, steady barometers, and light southerly winds on coast. Queensland: Cooktown, fine, light E. wind; moderate S.E. swell at Moreton Bay Heads. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 18, fine, temperature 58°; Portland, S.E., 23, fine, smooth sea, temperature 58°; Cape Otway, S., 13, cloudy, slight sea, temperature 63°; Wilson's Promontory, E.N.E., 8, cloudy, smooth sea, temperature 62°. New South Wales: Wentworth, S.S.W., fine, temperature 68°; Deniliquin, calm, fine, temperature 65°; Goulburn, E., dull, temperature 61°; Eden, S.E., cloudy, smooth sea, temperature 56°; Moruya, S.E. 14, dull, moderate sea, temperature 59°; Cape George, S., cloudy, smooth sea, temperature 60°; Sydney, S., 23, cloudy, smooth sea, temperature 58°; Newcastle, S.E., cloudy, smooth sea; Port Macquarie, calm, showery, smooth sea, temperature 61°; Menindie, calm, cloudy, temperature 68°. New Zealand: A moderate depression is passing over the North Island; strong N.W. winds at Timaru, S.E. winds in south; 0.50 rain, with S.E. wind at Wellington, minimum thermometer 12°, sleet with the rain. State of Rivers;—Murrumbidgee: At Wagga, 9 feet above summer level; at Hay, 6 feet 8 inches above summer level; at Balranald, 6 feet above summer level. Murray: At Albury, 6 feet above summer level, at Euston, 10 feet 10 inches above summer level. Darling: At Wentworth, 9 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT 25 1889, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·31*s* *E*

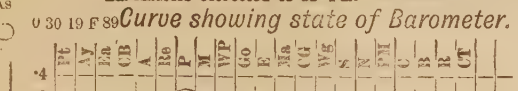
Average Annual Rainfall for 22 years	.... 51·461
Average for 23 years from Jan. 1st to Sept. 31	.. .49 570
Total Rainfall from Jan. 1st to October 25.	37 824.

Barometers corrected to 32° Fah and Mean Sea Level

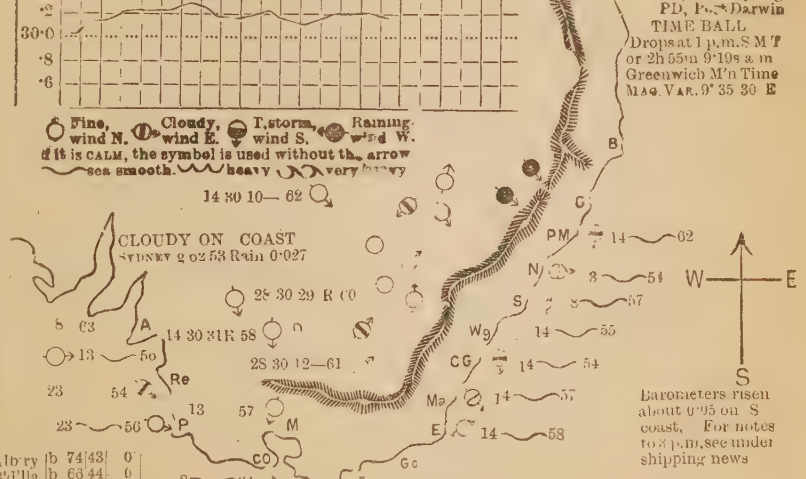
Stations.	W	M'x	M.	M'in
Casino..	d	80	56	0 32
Centerfild	d	65	41	0 03
Coree....	b	83	66	0
Grafton..	g	83	55	0 08
H'n Inn's	g	80	48	0
Inverell..	b	68	37	0
Bourke ..	b	78	60	0
Narrabri	c	76	52	0
Armidale	g	64	..	0
Bendem'r	g	61	36	0
Canned'h	–	..	..	..
Coonam'le	–	..	..	..
Camworth	c	81	49	0
Coonab'rn	g	73	41	0
C. Macqrie	c	67	54	0
Wilcannia	b	68	53	0
Murr'undi	g	63	48	0
Cassilis..	b	59	38	0
Mus'br'ok	b	74	48	0
Dubbo...	b	72	51	0
Menindie	b	73	49	0
Mudgee..	g	68	48	0
Maitland.	g	65	53	0
Hill End.	c	64	..	0 10
Newcastle	c	68	52	0
Orange..	g	62	42	0 10
Bathurst	c	61	39	0
13 64		Ea		
Forb's	b	68	48	0
Vict'ria	g	56	39	0 14
Condob'lin	b	66	35	0
Deton..	r	65	52	0 10
Carcoar..	b	57	37	0
Ventw'th	b	79	46	0
Young...	b	66	42	0
Wollgo'ng	g	63	51	0 02
Hay...	b	74	43	0
Moss Vale	1	58	43	0 20
Euston...	b	81	43	0
Goulburn	p	64	43	0 24
Wagga...	b	63	30	0
Cape Geo.	d	63	45	0
Queanb'n	b	69	42	0
Deniliq'in	o	76	44	0
Moruya..	g	61	50	0
Wandra..	b	43	18	0
Albury	b	74	43	0
B'd'lla	b	66	44	0
Cooma	c	67	41	0 04
Eden	b	62	59	0
Gabo	–	..	..	..

As 0 30 19 F 89

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0·05 on S coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 26.

Western Australia: Perth, fine and calm, sea smooth; Albany, gloomy, light W. wind. South Australia: Fine clear weather, light easterly winds, sea smooth, barometers rising; Streaky Bay, fine, light E.N.E. wind; Port Augusta, fine, with light southerly wind; Daly Waters, fine, light S.E. winds. Victoria: Clear weather round coast, sea smooth, wind light from E., barometers rising; Lake Entrance, wind light from W.S.W., weather hot and sultry, sea moderate; Low Heads, fine, light S.E. wind. New South Wales: Cloudy to N., N.W., and W., sea smooth, barometers rising, winds fresh from S. and S.E.; raining at Casino, Grafton, Port Macquarie, Maitland. Mount Victoria, and Nelson's Bay. For amounts see list in weather map. Queensland: Fine, fresh S. wind and rising barometer, moderate S.E. swell. 3 p.m Observations.—Victoria: Barometers steady; Melbourne, S.S.E., 20, fine, temperature 64°; Wilson's Promontory, N.E., 20, fine, smooth sea, temperature 64°; Cape Otway, E., 20, fine, smooth sea, temperature 59°; Portland, F.S.E., 34, fine, smooth sea, temperature 59°. New South Wales: Wentworth, S., fine, temperature 60°; Albury, E., light, fine, temperature 64°; Goulburn, calm fine, temperature 62°; Forbes, calm, fine, temperature 65°; Eden, S.E., 14, showery, light, temperature 60°; Moruya, E., 14, fine, moderate sea, temperature 61°; Cape George, S.S.E., 28, cloudy, smooth sea, temperature 61°; Sydney, S.E., 14, fine, smooth sea, temperature 61°; Newcastle, S.E., fine, smooth sea; Port Macquarie, S.E., 14, showery, smooth sea, temperature 62°; Menindie, calm, fine, temperature 62°. New Zealand: Fine generally, with light S.W. wind, except at Russell, where it is blowing strong from N.W. State of Rivers:—Murrumbidgee: At Wagga, 7 feet 11 inches above summer level; at Hay, 7 feet 6 inches above summer level; at Balranald, 6 feet above summer level. Murray: At Albury, 5 feet 6 inches above summer level; at Euston, 10 feet 10 inches above summer level. Darling: At Wentworth, 9 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from **Telegrams** for 9 A.M., OCT. 26 1881, with **Notes** to 3 P.M.

Sydney Observatory.

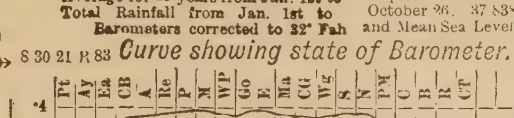
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 31 ....43 570
Total Rainfall from Jan. 1st to October 26. 37 838.
Barometers corrected to 32° Fah and Mean Sea Level

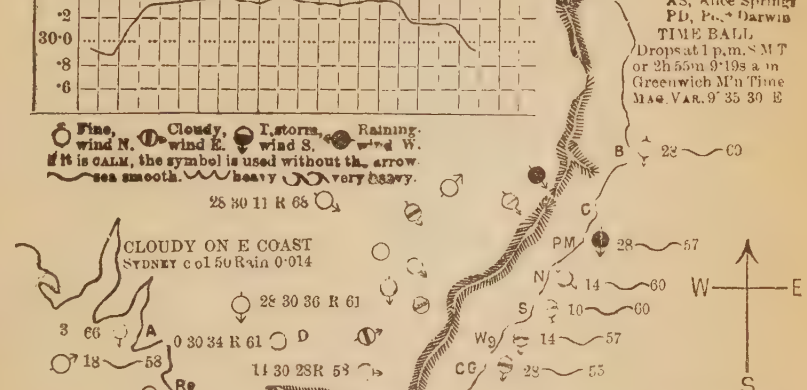
Stations.	Wt	M'x	Ma	R'in
Casino..	p	66	60	1 15
Tenterfild	g	56	47	0 80
Moree....	b	81	47	0
Grafton..	p	80	48	0 49
Gl'n Inn's	d	80	45	0 10
Inverell..	b	71	35	0 10
Bourke ..	b	80	57	0
Narrabri	c	77	51	0
Armidale	c	62	..	0
Bendem'r	c	58	39	0
Gunned'h	–	..	..	.
Coonam'le	–	..	..	.
Tamworth	c	82	40	0 02
Coonab'rn	g	77	45	0
P.Macqrie	p	64	53	2 48
Wilcannia	b	80	54	0
Murr'undi	g	63	51	0
Cassilis..	g	67	52	0
Mus'br'ok	g	68	49	0
Dubbo...	c	75	51	0
Menindie	b	80	49	0
Mudgee..	b	75	36	0
Maitland.	b	65	55	0
Hill End.	c	65	..	0
Newcastle	b	68	56	0
Orange..	b	60	46	0
Bathurst	b	61	43	0
8 64		Ea		
Forb's	b	70	50	0
Mt Vict'ria	p	52	40	0 06
Condob'ln	b	66	47	0
Picton..	g	59	44	0 20
Carcoar..	b	70	44	0 14
Wentw'th	b	78	50	0
Young...	b	65	45	0
Wollgo'ng	c	61	49	0 20
Hay....	b	77	49	0
Moss Vale	b	53	40	0 15
Euston...	b	83	49	0
Goulburn	g	60	38	0 02
Wagga...	b	72	45	0
Cape Geo.	g	61	50	0 06
Queanb'n	b	66	41	0
Deniliq'in	b	78	51	0
Moruya..	b	63	46	0
Kiandra..	b	50	19	0

Alb'ry	b	80	35	0
B'd'lla	b	63	42	0
Cooma	n	69	30	0
Eden	b	64	43	0
Gabo	–	..	..	..

As
8 30 21 R 83 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. Storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 27.

Western Australia: Fine, with light W. winds. South Australia: Fine clear weather, light N.E. winds; barometers falling; no rain; clear and warm in interior. Victoria: Fine clear weather all round coast; sea smooth; barometers steady; winds light from N.E. and E.N.E.; no rain. Low Heads, Tasmania: Dull; light N.E. winds. New South Wales: Cloudy, with rain in extreme N. and N.W. of colony; sea on coast smooth; barometers rising; winds light from S., and calm, fine on coast S. of Port Macquarie and inland to S.W. and W.; for particulars re rain, weather, &c., see map. Queensland: Brisbane, fine, light S.W. wind, moderate S.E. swell; Cooktown, fine, light N.E. wind. 3 p.m. Observations.—Victoria: Melbourne, S., 3, fine, temperature 71°; Portland, E., 23, fine, smooth sea, temperature 63°; Cape Otway, E., 13, cloudy, slight sea, temperature 65; Wilson's Promontory, N.E., 23, fine, slight sea, temperature 65° New South Wales: Wentworth, N.W., fine, temperature 72°; Deniliquin, calm, fine, temperature 74°; Albury, S.E., fine, temperature 66°; Goulburn, calm, fine, temperature 64°; Forbes, calm, fine, temperature 68°; Eden, E.S.E., 28, fine, smooth sea, temperature 58°; Cape George, S.E., 28, cloudy, smooth sea, temperature 62°; Sydney, S.E., fine, smooth sea, temperature 62°; Newcastle, S.E., fine, smooth sea; Port Macquarie, S., 42, raining, smooth sea, temperature 62°; Menindie, calm, fine, temperature 73°. New Zealand: Fine generally, except rain from S.W. at Gisborne; strong S.W. wind and very heavy sea from S.E. State of Rivers:—Murrumbidgee: At Wagga, 7 feet 5 inches above summer level; at Hay, 7 feet above summer level; at Balranald, 6 feet 8 inches above summer level. Murray: At Albury, 5 feet 11 inches above summer level; at Euston, 10 feet above summer level. Darling: At Wentworth, 9 feet 3 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

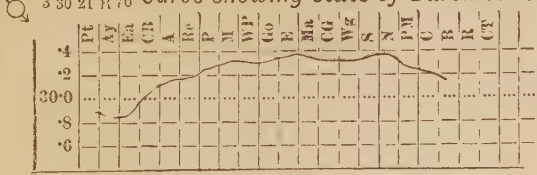
COMPILED from TELEGRAMS for 9 A.M., OCT. 27 1881, with NOTES to 3 P.M

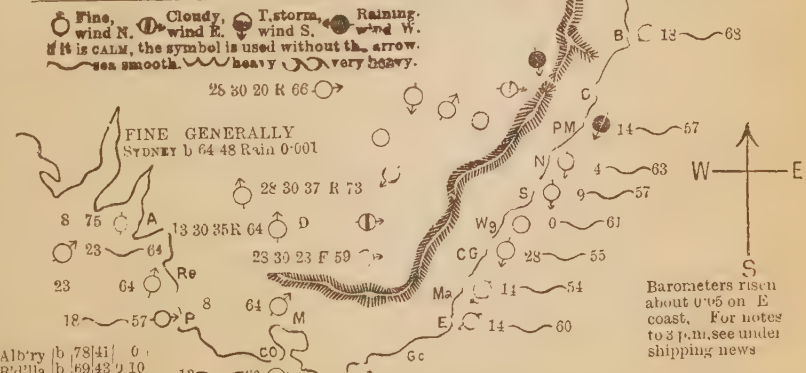
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 31 ....43 570.
Total Rainfall from Jan. 1st to October 27. 37 839.
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.





Stations.	W'th	W'x	M.S	R'in
Casino..	d	68 59	0	44
Centerfild	g	58 46	0	03
Coree....	b	89 58	0	09
Grafton..	r	71 48	0	74
Gl'n Inn's	g	80 45		0
Haverell..	b	70 45		0
Bourke ..	b	76 54		0
Narrabri	b	71 51		0
Armidale	r	62	.0	03
Bendem'r	g	53 40		0
Gunned'h	b	70 44	0	54
Coonam'le	b	67 42	0	38
Tamworth	c	69 40	0	05
Coonab'rn	b	60 42	0	28
P.Macqrie	r	61 54	1	19
Wilcannia	b	80 55		0
Murr'undi	g	59 50		0
Cassilis..	b	60 43		0
Mus'br'ok	b	65 46		0
Dubbo...	b	68 49		0
Menindie	b	73 51		0
Mudgee..	b	65 42		0
Maitland.	g	65 49	0	15
Hill End.	b	68 ..		0
Newcastle	b	68 54		0
Orange..	b	62 38		0
Bathurst	b	61 35		0
8 76 Ea				
Forb's	b	72 51		0
Mt Vict'ria	c	52 37	0	05
Condob'ln	b	67 46		0
Picton..	b	65 39		0
Carcoar..	b	75 48		0
Wentw'th	b	80 46		0
Young...	b	61 46		0
Wollgo'ng	b	64 48		0
Hay....	b	78 49		0
Moss Vale	c	57 37	0	02
Euston...	b	89 50		0
Goulburn	o	63 35		0
Wagga...	b	70 49		0
Cape Geo.	b	64 46		0
Queanb'n	b	72 42		0
Deniliq'in	o	79 48		0
Moruya..	b	64 45	0	12
Kiandra..	c	52 20		0

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

Barometers risen about 0·05 on E coast. For notes to 3 p.m. see under shipping news

ions.	W't	M'x	M.S	R'in
no..	c	62 51	1 60	
erfild	g	59 46	0	
e....	b	82 54	0 16	
ton..	b	67 52	0 39	
Inn's	b	80 42	0 03	
rell..	b	70 52	0	
rke ..	b	77 59	0	
abri	b	78 52	0	
idale	r	62	.	0
lem'r	g	61 38	0	
ned'h	b	72 41	0 02	
nam'le	c	61 41	0	
worth	b	80 39	0	
nab'rn	b	70 38	0	
acqrie	p	63 54	2 32	
annia	b	78 52	0	
r'undi	b	59 44	0	
ulis..	b	64 40	0	
'br'ok	b	69 43	0	
bo...	b	71 51	0	
indie	b	81 51	0	
lgee..	b	72 43	0	
tland.	g	65 47	0	
End.	b	68 ..	0	
vcastle	b	78 52	0	
nge..	b	62 39	0	
hurst	b	66 38	0	
0 68		Ea		
Forb's	b	74 52	0 01	
fict'ria	b	64 36	0	
dob'ln	b	71 51	0	
on..	b	62 41	0	
coar..	b	77 43	0	
atw'th	b	87 55	0	
ng...	b	69 42	0	
lgo'ng	b	65 54	0	
r....	b	81 53	0	
s Vale	b	60 42	0	
ton...	b	89 54	0	
lburn	b	69 42	0	
gga...	b	75 50	0	
e Geo.	b	66 45	0	
anb'n	b	71 44	0	
iliq'in	b	86 50	0	
uya..	b	62 47	0	
adra..	b	53 21	0	

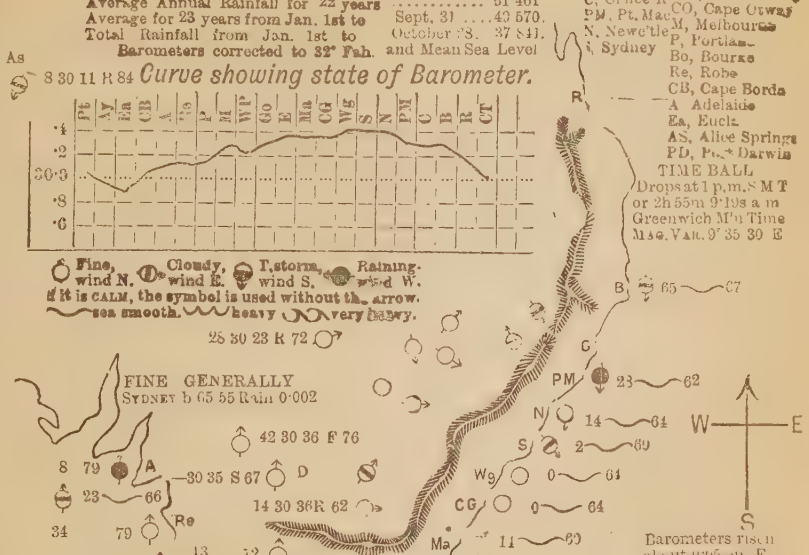
WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 28 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 31 ....40 570.
Total Rainfall from Jan. 1st to October 28. 37 841.
Barometers corrected to 32° Fah. and Mean Sea Level



Alb'ry	b	79	42	0
B'd'lla	–	..	..	..
Cooma	c	69	35	0
Eden	b	66	48	0
Gabo	–	..	..	..

Barometers risen about 0·05 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—October 29.

Western Australia: Fine weather, wind light from S.E. and W., sea very smooth. South Australia: Reports cloudy, but no rain falling on measured barometers, steady, wind light from S.W., cloudy inland on telegraph line fine on north coast. Victoria: Weather fine and very warm and hazy, sea smooth, barometers steady, winds light from north and hot. New South Wales: Fine, clear, warm weather reported from all stations, smooth sea, steady barometers, and light N.E. winds and calms on coast, calm inland. Queensland: Fine, light S.E. winds, moderate S.E. swell at Moreton Bay Heads. 3 p.m. Observations.—New South Wales: Albury, W., fine, warm, temperature 74°; Moruya, N.E., 30, fine, sea smooth, temperature 65°; Sydney, N.E., 30, fine, sea smooth, temperature 65°; Port Macquarie, calm, fine, sea smooth, temperature 69°; Goulburn, calm, fine, temperature 68°; Eden, N.E., fine, clear, sea smooth, temperature 65°; Cape George, N.E., fine, sea smooth, temperature 63°; Newcastle, N.E., fine, sea smooth. New Zealand, fine generally, with moderate S.W. winds, barometer 30·0 to 29·9; rough sea at Taranaki and Hokianga. State of Rivers.—Murrumbidgee: At Wagga, 6 feet 6 inches above summer level; at Hay, 7 feet above summer level; at Balranald, 7 feet 3 inches above summer level. Murray: At Albury, 5 feet 8 inches above summer level; at Euston, 10 feet 4 inches above summer level. Darling: At Wentworth, 9 feet above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 29 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

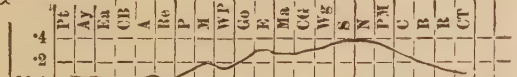
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 31 ....42 570.
Total Rainfall from Jan. 1st to October 29. 37 841.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	M'x	M.	R'in
Casino..	b	74	46	0
Genterfild	b	63	47	0·02
Cores....	b	81	59	0
Grafton..	b	79	62	0
H'n Inn's	b	80	46	0
Inverell..	b	71	47	0
Bourke ..	b	81	60	0
Narrabri	b	79	51	0
Armidale	b	62	..	0·19
Bendem'r	b	60	37	0
Tanned'h	b	81	43	0
Coonam'le	–	..	..	..
Camworth	b	86	44	0·07
Coonab'rn	b	74	38	0
P.Macqrie	b	67	54	0·09
Wilcannia	b	80	68	0
Murr'undi	b	67	46	0
Cassilis..	b	69	54	0
Mus'br'ok	b	75	43	0
Dubbo...	b	74	57	0
Menindie	b	84	53	0
Mudgee..	b	77	47	0
Maitland.	b	69	49	0
Hill End.	b	68	.	0
Newcastle	b	78	53	0
Orange..	b	65	41	0
Bathurst	b	72	40	0
Forbes	b	75	50	0
Mt Vict'ria	b	70	39	0
Condob'ln	b	74	46	0
Picton..	b	64	40	0
Carcoar..	b	79	45	0
Wentw'th	b	90	60	0
Young...	b	73	50	0
Wollgo'ng	b	70	52	0
Hay....	b	81	54	0
Moss Vale	b	65	42	0
Euston...	b	97	59	0
Goulburn	b	72	38	0
Wagga...	b	77	50	..
Cape Geo.	b	67	45	0
Queanb'n	b	80	48	0
Deniliq'in	b	84	52	0
Moruya..	b	65	45	0
Kiandra..	b	64	28	0

Alb'ry	b	94	45	0
B'd'lla	b	71	37	..
Cooma	b	74	37	0
Eden	b	66	57	0
Gabo	–	..	..	..

As 8 30 97 F 99

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

42 30 17 F 74

FINE GENERALLY
SYDNEY b 65 50 Rain 0·000

42 30 30 F 75

S 77 A 28 30 30 F 72 D

34

0 30 30 F 65

13 70 Re 18 75 M

28 70 P CO 23 76 WP 3 72 Go

Wg 0 67
CG 23 63
Ma 14 59
E 14 61
PM 0 67
N 0 64
S 3 63
R 3 70

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'o
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rome
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R.Rockht'n
B. Brisbane
C, Clence R
PM, Pt. Mac
N. New'tle
Sydney

TIME BALL
Drops at 1 p.m. = M T or 2h 55m 9·198 s m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers steady.

For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

ETEOROLOGICAL REPORTS.—October 31.

Australia: Fine and clear, light N.E. winds and calm, ny very smooth. South Australia: Cloudy and calm coast, sea smooth, barometers steady, slightly rising; ay, E.S.E., 13, cloudy; Port Augusta, S., 8, cloudy, ; Daly Waters, N.W., 8, fine; Tennant's and Powell's e, wind N.W.; Port Darwin, N., 8, fine. Victoria: coast, sea slight, showery at Portland, barometers nds light from W. and S.W.: Lake Entrance, overcast showers in previous 24 hours, rain 0·010; rain—Mel- 60, Otway 0·020. Low Heads, Tasmania: Overcast, with ind. New South Wales: Fine, clear, and warm, falling s, light variable winds and smooth sea on coast, winds tly calm, at some places N.W., others N.E.; for tem- yesterday and winds and weather this morning, see ap. Queensland: Fine, with light E. and N.E. winds, sea 3 p.m. Observations:—N. S. Wales: Deniliquin, calm, rature 62°; Albury, W., cloudy, temperature 77°; Forbes, dy, temperature 75°; Eden, S.E., 28, fine, light sea, re 70°; Moruya, S.E., 20, heavy thunderstorm, with erate sea, temperature 60.; Cape George, S.S.E., 42, smooth sea, temperature 69°; Sydney, E., 14, cloudy, , temperature 74°; Newcastle, N.W., fine, smooth sea; uarie, N.E., 28, fine, smooth sea, temperature 71°; cloudy, dull, temperature 80°. New Zealand: Fine n Sunday, except Gisborne, where strong S.E. gale was th high sea; to-day fine generally, with light S.W. ometers rising in north, falling in south. State of the urrumbidee: At Wagga, 6 feet above summer level; et 3 inches above summer level; at Balranald, 8 feet ve summer level. Murray: At Albury, 4 feet 4 inches ner level; at Euston, 10 feet 4 inches above summer ing: At Wentworth, 8 feet 11 inches above summer oncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., OCT. 31 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to Sept. 31 .... 43·570
Total Rainfall from Jan. 1st to October 31. 37·841.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	m'x	M.D.	R'in
Casino..	b	82	46	0
Tenterfild	b	75	48	0
Moree....	b	84	61	0
Grafton..	b	80	53	0
Gl'n Inn's	b	80	40	0
Inverell..	b	78	36	0
Bourke ..	b	87	63	0
Narrabri	b	83	57	0
Armidale	b	72	..	0
Bendem'r	b	71	36	0
Gunned'h	b	90	45	0
Coonam'le	–	..	..	..
Tamworth	b	80	45	0
Coonab'rn	–	..	..	.
P.Macqrie	b	73	56	0
Wilcannia	–	..	..	..
Murr'undi	b	76	46	0
Cassilis..	b	81	44	0
Mus'br'ok	b	87	53	0
Dubbo...	b	86	37	0
Menindie	–	..	..	..
Mudgee..	b	88	36	0
Maitland.	b	82	54	0
Hill End.	b	70	..	0
Newcastle	b	78	57	0
Orange..	b	73	49	0
Bathurst	b	79	41	0
0 60		Ea		
Forb's	b	76	52	0
Mt Vict'ria	c	78	48	0
Condob'ln	–	.	..	.
Picton..	g	82	52	0
Carcoar..	b	78	48	0
Wentw'th	–	..	..	.
Young...	c	79	55	0
Wollgo'ng	b	83	60	0
Hay....	b	85	55	0 22
Moss Vale	b	77	54	0
Euston...	b	101	54	0
Goulburn	b	82	47	0
Wagga...	b	88	55	0
Cape Geo.	g	..	55	0
Queanb'n	b	81	57	0
Deniliq'in	b	88	50	0 03
Moruya..	g	79	59	0
Kiandra..	b	66	29	0
Alb'ry	b	90	45	0
B'd'lla	b	86	45	0
Cooma	b	81	51	0
Eden	b	77	61	0
Gabo	–	..	..	..

As

0 30 12 R 84 *Curve showing state of Barometer.*

Pt Ay Ea CB A Re P M WP Go E Ma CG W S N PM C R CT

·4 ·2 30·0 ·8 ·6

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 30 03 F 82

FINE GENERALLY
SYDNEY b 76 58 Rain 0·000

0 63 A 14 30 03 F 63 D

18 56

0 30 03 F 67

0 59 Re

3 58 M

28 58 P

CO

8 57 WP 23 57

Go

CG 0 74

Ma 28 65

E 23 62

B 23 75

C

PM 14 69

N 5 76

S 4 75

Wg 28 81

R 4 70

W E S

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pr'ty
CO, Cape Howe
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh'h
B, Brisbane
C, Clunce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. G M T or 2h 55m 9·19s a.m Greenwich M'n Time
MAG VAR. 9 35 30 E

Barometers fallen about 0·35 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—November 1.

Western Australia: Perth, dull, light S.E. wind, sea smooth; Albany, fine and clear, light E. wind, sea smooth. South Australia reports barometers falling, winds southerly to S.E., sea smooth, weather fine and pleasant throughout colony; reports not yet received from overland stations. Victoria: No telegrams. New South Wales: Cloudy, with rain (see list in Weather Map); fine weather far inland; smooth sea, rising barometers, and light southerly winds on coast. Queensland: Brisbane, fine, strong N. wind, sea moderate; Cooktown, fine, fresh S.E. wind; Rockhampton, fine, light S.S.E. wind. 3 p.m. Observations.—Victoria: No telegrams. New South Wales: Deniliquin, calm, fine, temperature 76°; Albury, W., fine, temperature 76°; Goulburn, N., like storm, temperature 71°; Eden, E., 14, like rain, smooth sea, temperature 72°; Moruya, N.E., dull, moderate sea; Cape George, N.E., 42, cloudy, smooth sea, temperature 64°; Sydney, E., 14, cloudy, smooth sea, temperature 64°; Newcastle, S.E., dull, smooth sea: Port Macquarie, S., dull, smooth sea, temperature 69°. New Zealand: Fine generally, with light S.W. winds, except at the Bluff, where it is raining; barometers 30·1 in north, 29·6 at the Bluff. State of the Rivers:—Murrumbidgee: At Wagga, 5 feet 8 inches above summer level; at Hay, 8 feet 2 inches above summer level; at Balranald, 7 feet 9 inches above summer level. Murray: At Albury, 8 feet 2 inches above summer level; at Euston, 10 feet 4 inches above summer level. Darling: At Wentworth, 9 feet above summer level; at Pooncarie, Menindi, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV'R. 1 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

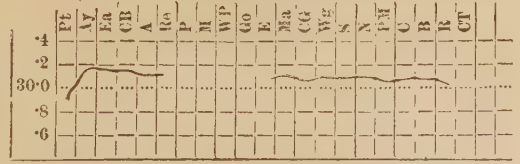
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 1 37 865.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.l	R'in
Casino..	b	89	55	0
Tenterfild	g	79	51	0
Moree....	g	88	68	0
Grafton..	b	85	52	0
Gl'n Inn's	b	83	41	0
Inverell..	b	76	62	0
Bourke ..	b	92	63	0 72
Narrabri	r	85	64	0 01
Armidale	b	73	..	0
Bendem'r	g	69	40	0
Gunned'h	r	92	58	0 02
Coonam'le	–	..	..	..
Tamworth	c	94	45	0
Coonab'rn	r	81	47	0 19
P.Macqrie	g	75	61	0
Wilcannia	b	83	68	0
Murr'undi	r	79	62	0 08
Cassilis..	g	83	59	0 46
Mus'br'ok	c	94	61	0
Dubbo...	g	86	64	0 13
Menindie	b	84	60	0
Mudgee..	g	89	59	0
Maitland.	g	86	64	0
Hill End.	c	75	.	0
Newcastle	g	87	58	0 04
Orange..	c	78	56	0 21
Bathurst	c	83	55	
0 62		Ea		
Forb's	b	77	52	0
Mt Vict'ria	g	79	49	0
Condob'ln	b	84	50	0
Picton..	g	84	59	0 31
Carcoar..	g	74	55	0
Wentw'th	b	82	..	0
Young...	b	80	58	0 14
Wollgo'ng	p	83	59	0
Hay....	b	84	51	0
Moss Vale	b	79	54	0 15
Euston...	b	92	50	0
Goulburn	b	83	52	0
Wagga...	b	90	58	0
Cape Geo.	g	65	55	0
Queanb'n	b	84	58	0
Deniliq'in	b	86	46	0
Moruya..	g	78	56	0
Kiandra..	b	68	53	0

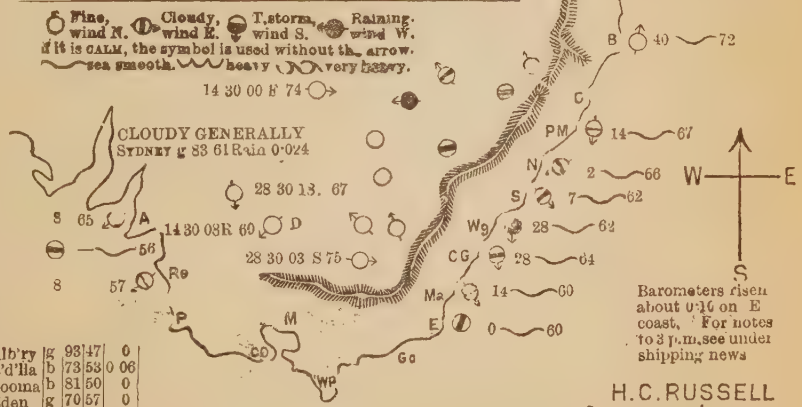
Alb'ry	g	93	47	0
B'd'lla	b	73	53	0 06
Cooma	b	81	50	0
Eden	g	70	57	0
Gabo	–	..	..	..

As

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
if it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockht'n
B, Brisbane
C, Clence R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0·16 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 2.

Western Australia.—Light S.E. winds with moderate sea round S.W. coast: light rain falling at Perth, measured 0·140. South Australia.—Cloudy on S. coast, very fine at Adelaide; barometers falling slowly; winds light from S.E. and N.E., and calm; over-land stations not sent reports. Victoria.—Cloudy weather with light southerly and westerly winds: barometers falling slowly; sea slight, no rain. Lake Entrance, overcast and hazy, wind moderate from S.S.E.; Echuca, fine, light S.W. wind. Low Head, Tasmania.—Fine, light N.W. winds. New South Wales.—Cloudy at majority of stations, especially to N. and N.W.; sea smooth, winds light from N.E. and S.E.; barometers falling; cloudy inland on Darling, fine on Murray, Murrumbidgee, and Lachlan rivers; raining at Tenterfield and Moree. Queensland.—Weather at Brisbane overcast and sultry; sea smooth; fine at Cooktown and Rockhampton. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 8, fine, temperature 62°; Portland, S., 13, dull, sea smooth, temperature 60°; Cape Otway, W., 18, cloudy, slight sea, temperature 58°. New South Wales: Deniliquin, S., fine, temperature 80°; Goulburn, calm, warm, temperature 74°; Forbes, calm, cloudy, temperature 76°; Eden, N.E., 14, fine, light sea, temperature 66°; Moruya, N.E., 20, fine, moderate sea, temperature 69°; Cape George, N., 28, like change, smooth sea, temperature 68°; Sydney, E., 14, cloudy, smooth sea, temperature 68°; Newcastle, S.E., fine, smooth sea, temperature 68°; Port Macquarie, N.E., 42, dull, smooth sea, temperature 72°; Menindie, N., 10, light rain, temperature 80°. New Zealand.—Fine generally, light S.W. winds. State of the Rivers:—Murrumbidgee: At Wagga, 5 feet 3 inches above summer level; at Hay, 8 feet 11 inches above summer level. Murray: At Albury, 4 feet 2 inches above summer level; at Euston, 10 feet 4 inches above summer level. Darling: At Wentworth, 9 feet above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV'R. 2 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s E.*

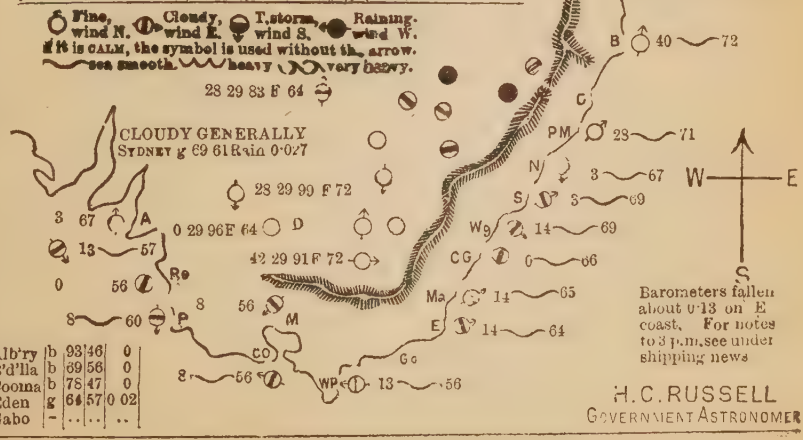
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 2 37 892.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	w't	M'x	M.	R'in
Casino..	g	90	58	0 94
Tenterfild	d	75	51	0
Moree....	r	88	62	0 50
Grafton..	g	81	56	0 18
Gl'n Inn's	g	83	50	0 10
Inverell..	g	76	65	0
Bourke ..	c	84	63	0 88
Narrabri	g	71	57	0 14
Armidale	c	70	..	0 17
Bendem'r	g	63	35	0
Gunned'h	g	69	50	0 28
Coonam'le	-	80	52	..
Tamworth	c	75	52	0 04
Coonab'rn	g	72	53	0 46
P.Macqrie	b	71	62	0
Wilcannia	g	89	70	0
Murr'undi	b	66	57	0 17
Cassilis..	g	85	60	0
Mus'br'ok	g	80	57	0
Dubbo...	c	77	57	0 23
Menindie	g	82	65	0
Mudgee..	g	79	55	0 25
Maitland.	-	..	.	..
Hill End.	c	75	.	0
Newcastle	b	82	59	0
Orange..	b	71	50	0 12
Bathurst	b	76	48	0 24
8 66		Ea		
Forb's	b	79	53	0
Mt Vict'ria	g	67	48	0 38
Condob'ln	b	78	48	0
Picton..	-	..	..	..
Carcoar..	b	78	53	0 42
Wentw'th	b	86	56	0
Young...	b	81	57	0
Wollgo'ng	g	70	59	0
Hay....	b	82	52	0 01
Moss Vale	b	70	56	0
Euston...	b	91	54	0
Goulburn	b	77	57	0
Wagga...	b	86	56	0
Cape Geo.	g	66	57	0
Queanb'n	b	87	55	0 48
Deniliq'in	b	83	47	0
Moruya..	g	68	59	0
Kiandra..	b	65	42	0

Alb'ry	b	93	46	0
B'd'lla	b	69	56	0
Cooma	b	78	47	0
Eden	g	64	57	0 02
Gabo	-	..	..	..

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.



Barometers fallen about 0·13 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 3.

Western Australia: Perth, fine; Albany reports light rain falling, wind light from S.S.E., sea rather rough. South Australia reports cloudy weather, barometers still falling slowly, winds light from N. and S.E. and E., sea smooth; overland lines still not received; Streaky Bay, dull, light N.W. wind; [illegible] light westerly breeze. Victoria: Cloudy, [illegible] calms, sea smooth, barometers falling; [illegible] E. wind; Omeo, W.N.W., [illegible]; [illegible] Heads, Tasmania, fine and clear, moderate W.N.W. wind. New South Wales: Fine, clear, and warm, winds very [illegible] N.W. and S.W., and calm, smooth sea and [illegible] coast; for rainfall yesterday see weather map. Queensland: Fine and clear, with light N.E. winds, sea moderate, no rain. 3 p.m. Observations:—Victoria.—Melbourne, S., 8, overcast, temperature 70°; Cape Otway, W., 8, cloudy, slight sea, temperature 64°; Portland, W.S.W., 3, cloudy, smooth sea, temperature 63°; Wilson's Promontory, calm, cloudy, smooth sea, temperature 65°. New South Wales.—Wentworth, N.W., sultry, temperature 82°; Albury, W., cloudy, temperature 77°; Forbes, calm, fine, temperature 76°; Moruya, N.E., fine, smooth sea; Sydney, E., 14, fine, smooth sea, temperature 67°; Port Macquarie, N.E., 14, fine, smooth sea, temperature 73°; Menindie, W.S.W., cloudy, temperature 84°; Deniliquin, E., cloudy, temperature 76°; Goulburn, calm, fine, temperature 73°; Cape George, S.S.E., 14, fine, smooth sea, temperature 65°; Newcastle, S.E., light, fine, smooth sea. New Zealand, fine generally, with light N.W. winds, temperatures 70·2 in north, 29·9 in south. State of Rivers.—Murrumbidgee: At Wagga, 5 feet above summer level; at [illegible] feet above summer level; at Balranald, 8 feet 6 inches above summer level. Murray: At Albury, 4 feet 2 inches above summer level; at Euston, 10 feet 4 inches above summer level. Darling: At Wentworth, 9 feet above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

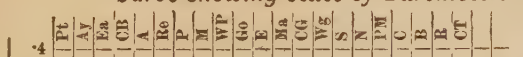
COMPILED from **Telegrams** for 9 A.M., NOV'R. 3 1888, with **Notes** to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 3 37 893.
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.



Stations.	W'th	M'X	M.I	R'in
Casino..	b	85	56	0 15
Tenterfild.	g	70	55	0 79
Moree....	b	73	63	1 25
Grafton..	b	72	60	0 23
Gl'n Inn's	g	83	51	0 83
Inverell..	b	72	35	0 65
Bourke ..	b	84	62	0
Narrabri	b	74	54	0 10
Armidale	c	68	..	0 31
Bendem'r	b	71	41	0 25
Gunned'h	b	75	47	0 36
Coonam'le	–	..	..	..
Tamworth	b	79	50	0 21
Coonab'rn	b	75	51	0
P.Macqrie	b	74	60	0 39
Wilcannia	b	82	68	0
Murr'undi	c	67	58	0 06
Cassilis..	b	70	55	0 82
Mus'br'ok	b	83	58	0
Dubbo...	b	81	57	0
Menindie	b	75	60	0
Mudgee..	b	80	53	0 75
Maitland.	t	80	61	0
Hill End.	g	73	..	0 85
Newcastle	o	81	59	0 06
Orange..	c	73	58	0 32
Bathurst	b	76	50	0
13 67 Ea				
Forb's	b	79	50	0
Mt Vict'ria	b	67	50	0 07
Condob'ln	b	83	48	0
Picton..	b	72	55	0
Carcoar..	b	73	59	0 14
Wentw'th	b	99	58	0
Young...	b	80	56	0
Wollgo'ng	b	80	55	0
Hay....	b	88	55	0
Moss Vale	b	71	53	0
Euston...	b	98	56	0
Goulburn	b	81	50	0 32
Wagga...	b	86	55	0
Cape Geo.	b	73	55	0
Queanb'n	g	86	55	0 06
Deniliq'in	b	87	51	0
Moruya..	g	71	60	0
Kiandra..	b	90	54	0

Alb'ry	b	91	49	0
B'd'lla	g	77	55	0
Cooma	K	84	47	0 79
Eden	b	66	55	0
Gabo	–	..	..	..

As

Fine, wind N. Cloudy, wind E. T,storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

0 29 85 R 71

CLOUDY ON S COAST
SYDNEY b 72 61 Rain 0·001

14 29 97 F 80

14 29 86 F 74

28 29 88 F 67

0 74 A

13 61

13 60 Re

3 60 P

0 65 M

0 63 CO

WP 8 63

Gc

E 0 64

Ma 14 66

CG 14 65

Wg 0 68

S 4 69

N 0 67

PM 0 72

C

B 34 76

R 74

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
R, Rockht'n
Go, Gabo
B, Brisbane
WP, Wilsons P't
C, Cl'nce R
CO, Cape Otway
PM, Pt. Mac
M, Melbourne
N, Newc'tle
P, Portland
S, Sydney
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

W — E
S

Barometers fallen about 0·10 on E coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 4.

Victoria: Cloudy and threatening, sea moderate, winds light from W. and S.W., barometers rising; showery at Portland and Cape Otway. Low Heads (Tasmania) reports low barometer, fresh N.W. wind. New South Wales: Fine and warm, smooth sea, falling barometers, and light N.W. and N.E winds on coast, calm with light westerly and S.W. winds inland. Queensland: Fine and clear, with light N.E. winds, sea moderate from E.N.E. 9 p.m. Observations:—Victoria: Melbourne, S.S.W., 13, overcast, temperature 57°; Portland, S.W., 40, squally, smooth sea, temperature 57°; Cape Otway, W.S.W., 34, showery, rather rough sea, temperature 53°; Wilson's Promontory, W., 34, showery, squally, rather rough sea, temperature 54°. New South Wales: Wentworth, variable, fine, temperature 74°; Deniliquin, W., fine, temperature 76°; Albury, S.W., strong, cloudy, temperature 76°; Goulburn, W. gale, fine, temperature 77°; Eden, S.S.W., 28, showery, light sea, temperature 64°; Cape George, W., 42, threatening, smooth sea, temperature 77°; Sydney, N., 14, cloudy, smooth sea, temperature 67°; Newcastle, N.W., fine, smooth sea; Port Macquarie, N.E., 16, fine, smooth sea, temperature 74°. New Zealand: Fine generally. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 10 inches above summer level; at Hay, 8 feet 5 inches above summer level. Murray: At Albury, 4 feet 2 inches above summer level; at Euston, 10 feet 5 inches above summer level. Darling: At Wentworth, 9 feet above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV'R. 4 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 22 years ..... 51·461

Average for 23 years from Jan. 1st to October 31 ..45·525.

Total Rainfall from Jan. 1st to November 4 37·893.

Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.

Stations.	W't	M'x	M'n	R'in
Casino..	–	..	..	..
Tenterfild	r	80	49	0
Moree....	b	88	69	0
Grafton..	b	92	63	0
Gl'n Inn's	b	83	55	0
Inverell..	b	79	35	0
Bourke ..	b	89	64	0
Narrabri	b	85	63	0
Armidale	p	71	..	0
Bendem'r	b	67	39	0
Gunned'h	–	..	..	..
Coonam'le	b	88	64	0
Tamworth	b	92	52	0
Coonab'rn	b	86	51	0
P.Macqrie	b	77	62	0
Wilcannia	g	90	79	0
Murr'undi	b	78	62	0
Cassilis..	b	81	55	0
Mus'br'ok	b	89	58	0 20
Dubbo...	b	85	61	0
Menindie	b	95	66	0
Mudgee..	b	86	59	0
Maitland.	b	86	65	0
Hill End.	b	75	.	02
Newcastle	b	83	60	0
Orange..	o	75	54	0
Bathurst	b	76	26	0 22
		Ea		
Forbes	b	78	51	0
Mt Vict'ria	b	76	59	0
Condob'ln	b	90	71	0
Picton..	b	83	56	0
Carcoar..	b	78	56	0
Wentw'th	b	94	64	0 03
Young...	b	82	53	0
Wollgo'ng	b	82	59	0
Hay....	g	98	66	0
Moss Vale	b	78	57	0
Euston...	b	92	61	0
Goulburn	b	81	54	0
Wagga...	g	89	62	0
Cape Geo.	b	74	57	0
Queanb'n	b	84	44	0
Deniliq'in	b	92	63	0
Moruya..	o	74	58	0 03
Kiandra..	g	70	48	0
Alb'ry	g	92	65	0
B'd'lla	b	81	51	0
Cooma	g	78	49	0
Eden	g	69	60	0
Gabo	–	..	..	..

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.

CLOUDY ON S COAST
SYDNEY b 82 62 Rain 0·000

56 29 99 R66

2829 81 R 73

28 29 78 F 70

0 29 85

34 52

37 53

60

23 59

56 78

18 73

14 72

0 78

5 81

14 83

14 69

14 65

14 61

WG. Wollongong
CG. Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pm
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clunce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E

W — E
S

Barometers fallen about 0·10 on E coast. For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—November 5.

Western Australia: Fine at Perth, and cloudy at Albany, with smooth sea. South Australia: Cloudy generally, squally at Cape Borda; wind generally S.E. and E.S.E.; barometers high and rising. Victoria: Cloudy generally, showery at Melbourne and Wilson's Promontory; wind between S. and S.W., with rather rough sea at Cape Otway; barometers rising, 0·26, rain at Melbourne 0·35 at Wilson's Promontory. New South Wales: Cloudy all along east coast, and smooth sea; wind generally from S.E.; raining at Newcastle and West Maitland, also drizzling rain at Wollongong, showery at Port Stephens; barometers rose about ·30 since last night. Queensland: Fine at Brisbane, with light S. breeze and moderate sea at Cape Moreton; fine also at Cooktown and Rockhampton, 3 p.m. Observations.—Victoria: Cape Otway, S., 23, clear, rather rough sea, temperature 55°; Portland, S., 28, clear, slight sea, temperature 58°; Wilson's Promontory, W.S.W., 34, fine, squally, rough sea, temperature 53°; New South Wales: Wentworth, S., fine, temperature 67°; Mendindie, S.W., strong, fine, temperature 69°; Moruya, S.E., cloudy, moderate sea: Sydney, S.S.E., fresh, cloudy, dull, moderate sea; Port Macquarie, S., cloudy, smooth sea, temperature 71°; Deniliquin, calm, fine, temperature 74°; Goulburn, calm, fine, temperature 67°; Eden, S.W., fine, smooth sea, temperature 57°; Cape George, S.E., fresh, fine, moderate sea, temperature 60°; Newcastle, S.E., cloudy, smooth sea. New Zealand, moderate depression of barometer over Bluff, and heavy N.W. gale—cloudy over South Island. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 10 inches above summer level; at Hay, 8 feet above summer level. Murray: At Albury, 4 feet above summer level; at Euston, 10 feet 5 inches above summer level. Darling: At Wentworth, 9 feet above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV'R. 5 1881, with NOTES to 3 P.M.

Sydney Observatory.

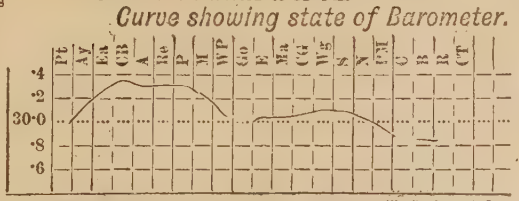
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45·525
Total Rainfall from Jan. 1st to November 5 37·894
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W'l	M'x	M.	R'in
Casino..	b	95 65	0	
Tenterfild	b	86 53	0	
Moree....	b	93 70	0	
Grafton..	b	99 62	0	
Gl'n Inn's	b	84 53	0	
Inverell..	b	81 38	0	
Bourke ..	b	91 68	0	
Narrabri	b	93 64	0	
Armidale	b	77 ..	0	
Bendem'r	b	74 59	0	
Ganned'h	b	98 52	0	
Coonam'le	–	..	..	
Tamworth	b	97 50	0	
Coonab'rn	b	91 56	0	
P.Macqrie	c	72 63	0	
Wilcannia	b	92 56	0	
Murr'undi	u	84 62	0	
Cassilis..	u	88 70	0	
Mus'br'ok	u	96 58	0	
Dubbo...	b	90 65	0	
Menindie	b	84 53	0	
Mudgee..	b	90 58	0	
Maitland.	r	93 62	0	03
Hill End.	b	77	0	
Newcastle	r	92 58	0	
Orange..	b	79 49	0	
Bathurst	b	82 46	0	
(28 61)		Ea		
Forb's	b	78 50	0	
Mt Vict'ria	f	78 51	0	01
Condob'lin	b	70 48	0	
Picton..	d	87 54	0	
Carcoar..	b	77 50	0	
Wentw'th	b	79 48	0	
Young...	b	84 60	0	
Wollgo'ng	b	91 51	0	11
Hay....	d	82 53	0	
Moss Vale	c	82 47	0	09
Euston...	b	82 47	0	
Goulburn	b	83 50	0	
Wagga...	b	82 48	0	
Cape Geo.	c	94 50	0	
Queanb'n	b	80 49	0	
Deniliq'in	b	82 43	0	
Moruya..	g	87 52	0	
Kiandra..	b	64 28	0	

Alb'ry	b	83	43	0
B'd'lla	b	91	46	0 15
Cooma	b	75	38	0
Eden	b	69	49	0 06
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

TIME BALL
Drops at 1 p.m. M T
or 2h 55m 9·198 s in
Greenwich M'n Time
MAG VAR. 9° 35′ 30″ E

Barometers fallen about 0·35 in N.S. Wales. For notes to 3 p.m., see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 7.

Western Australia: Fine at Perth, with smooth sea, temperature 68°; cloudy at Albany, with N.E. breeze, and 0·04 of rain, temperature 63°. South Australia: Cloudy at Adelaide, Robe, and Cape Borda; wind generally between E. and N.E., with smooth sea at Robe and Cape Borda; barometer has fallen about 0·07. Victoria: Cloudy at Wilson's Promontory, and squally; E.N.E. wind at Melbourne and Portland, and S.E. at Cape Otway; slight sea at Cape Otway and Wilson's Promontory. Tasmania: Fine and clear, with light N.W. breeze, at Low Head. New South Wales: Fine generally, the cloudy stations are all mostly on the E. side of range; wind variable, but chiefly from N.E. to S.E.; showery at Port Stephens, and smooth along the E. coast. Queensland: Fine, with wind from the S.E.; blowing strong at Cape Moreton, and moderate sea. 3 p.m. Observations.—Victoria: Barometers falling; Melbourne, S.S.W., fine, clear, temperature 63°; Cape Otway, S.E., 14, fine, smooth sea, temperature 62°; Portland, E.S.E., 28, fine, smooth sea, temperature 59°; Wilson's Promontory, W., 23, squally, fine, smooth sea, temperature 56°. New South Wales: Wentworth, N.W., fine, temperature 77°; Deniliquin, calm, fine, temperature 76°; Goulburn, calm, fine, temperature 73°; Eden, E.N.E., 14, fine, smooth sea, temperature 61°; Cape George, N.E., fine, smooth sea, temperature 64°; Sydney, E.N.E., 14, fine, smooth sea, temperature 62°; Newcastle, E.S.E., fine, smooth sea; Port Macquarie, S.S.W., 42, fine, smooth sea, temperature 71°; Menindie, E.S.E., 28, cloudy, temperature 75°. New Zealand.—Raining at Russell, with N.E. wind; N.W. gale blowing elsewhere. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 10 inches above summer level; at Hay, 7 feet above summer level; at Balranald, 9 feet 3 inches above summer level. Murray: At Albury, 4 feet 1 inch above summer level; at Euston, 10 feet 7 inches above summer level. Darling: At Wentworth, 9 feet 1 inch above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 7 1881, with NOTES to 3 P.M.

Sydney Observatory.

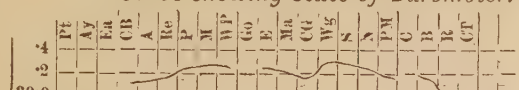
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to October 31 ..45·525
Total Rainfall from Jan. 1st to November 7 37·910.
Barometers corrected to 32° Fah and Mean Sea Leve.

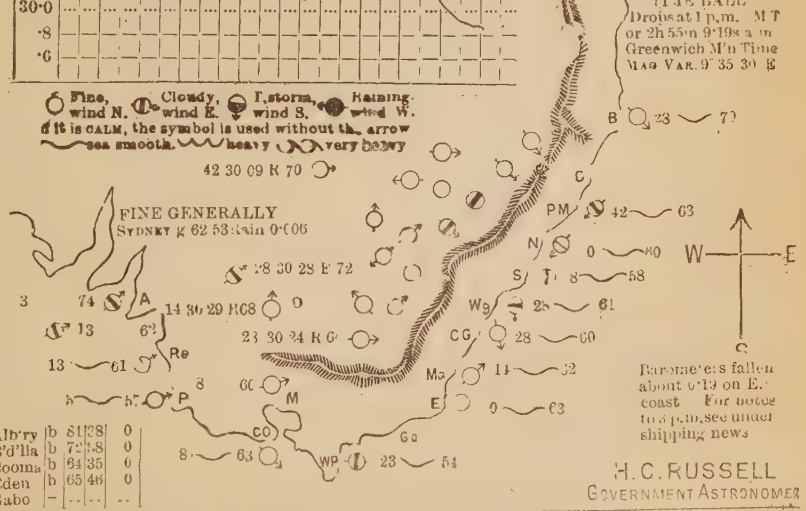
Stations.	W'h	W'x	M.	R'in
Casino..	c	67	52	0
Tenterfield	b	85	39	0
Moree....	b	88	61	0
Grafton..	b	92	65	0
Gl'n Inn's	b	84	32	0
Inverell..	b	82	45	0
Bourke ..	b	81	61	0
Narrabri	b	79	51	0
Armidale	b	79	..	0
Bendem'r	b	69	41	0
Ganned'h	–			
Coonam'le	b	78	54	0
Tamworth	b	81	38	0
Coonab'rn	b	78	41	0
P.Macqrie	c	66	53	0
Wilcannia	b	73	51	0
Murr'undi	b	84	48	0
Cassilis..	b	73	51	0
Mus'br'ok	g	70	44	0
Dubbo...	b	82	54	0
Menindie	b	77	52	0
Mudgee..	u	85	48	0
Maitland.	c	69	53	0 05
Hill End.	b	73	..	0
Newcastle	c	73	48	0 04
Orange..	b	63	42	0
Bathurst	b	70	40	0
	Ea			
Forbes	b	76	51	0
Mt Vict'ria	u	58	38	0 08
Condob'lin	b	70	42	0
Picton..	c	64	44	0
Carcoar..	b	71	46	0
Wentw'th	c	80	52	0
Young...	b	62	52	0
Wollgo'ng	c	65	58	0
Hay....	b	77	46	0
Moss Vale	b	59	44	0
Euston...	b	82	43	0
Goulburn	b	66	39	0
Wagga...	b	73	47	0
Cape Geo.	b	63	48	0
Queanb'n	b	78	45	0
Deniliq'in	b	76	43	0
Moruya..	b	65	48	0
Kiandra..	b	88	45	0

Alb'ry	b	81	28	0
B'd'lla	b	72	58	0
Cooma	b	64	35	0
Eden	b	65	46	0
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow
sea smooth. heavy very heavy



Barometers fallen about 0·19 on E. coast. For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 8.

Western Australia: Fine at Perth, with smooth sea, temperature 64°; and cloudy at Albany, temperature 63°, sea smooth. South Australia: Weather cloudy and hot, with wind generally between E.S.E. and E.N.E., sea rough at Cape Borda. Barometers are falling slowly, except at Eucla, where it has risen ·10. Victoria: Cloudy weather throughout, with variable wind, and smooth sea. The barometers have fallen about ·12 on S. coast. Tasmania: Light N.E. breeze at Low Head, and fine. New South Wales: Fine almost throughout the colony, with fresh breezes between N.W. and N.E., and smooth sea along coast. Showery at Cobiro. See weather map. Barometers have risen above ·10. Queensland: Cloudy and sultry at Cooktown, with fresh breeze from E., and ·02 of rain. Fine at Rockhampton and [illegible]; moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, cloudy, temperature 59°; Portland, S.S.E., 28, showery, smooth sea, temperature 58°; Cape Otway, E., 8, cloudy, smooth sea, temperature 57°; Wilson's Promontory, W., 18, cloudy, squally, smooth sea, temperature 55°. New South Wales: Wentworth, N.W., close, temperature 78°; Albury, N.E., moderate, cloudy, temperature 73°; Goulburn, calm, overcast, temperature 72°; Eden, N.E., 14, cloudy, smooth sea, temperature 65°; Moruya, N.E., fine, moderate sea; Cape George, N.E., 42, fine, smooth sea, temperature 69°; Sydney, N.E., 28, cloudy, smooth sea, temperature 67°; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., fine, smooth sea, temperature 72°. New Zealand: Fine generally, with N.W. winds. Light [illegible] 40 of an inch fell. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 10 inches above summer level; at [illegible] above summer level; at Balranald, 9 feet 3 [illegible] summer level. Murray: At Albury, 4 feet above summer level; at Euston, 10 feet 6 inches above summer level. Darling: At Wentworth, 9 feet 2 inches above summer level; at Bourke, Menindie, and Wilcannia, summer level.

WEATHER MAP.

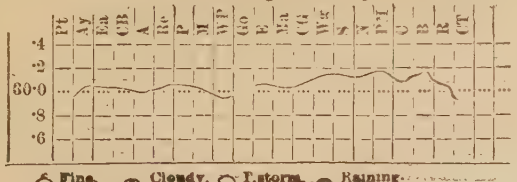
COMPILED from TELEGRAMS for 9 A.M., NOV. 8 . 1881, with NOTES to 3 P.M.

Sydney Observatory.

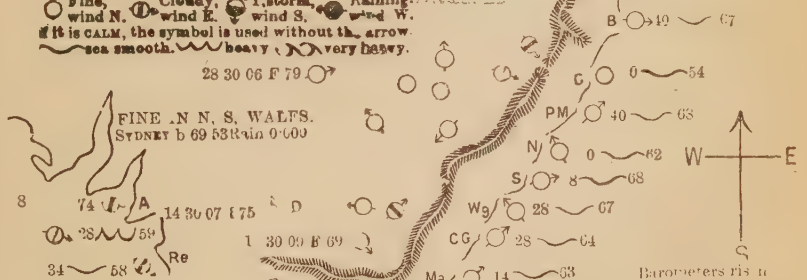
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·463
Average for 23 years from Jan. 1st to October 31 ... 45·525
Total Rainfall from Jan. 1st to November 8 ... 37·960,
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Barometers rise about 0·29 on S.E. coast. For notes to 3 p.m., see under shipping news.

H. C. RUSSELL.
GOVERNMENT ASTRONOMER

Stations.	W'h	Pr'S	M.T.	Rain
Ino...	p	75	56	0·03
Waterfield	u	75	47	0·[illegible]
Cooee....	b	85	62	0
Carlton..	c	97	64	0
Inn Inn's	c	84	42	0
Berrell..	b	82	48	0
Clarke ..	b	84	62	0
Narrabri	b	79	56	0
Armidale	c	67	..	0
Tamden'r	b	73	43	0
Tenned'b	–	..	..	.
Tenham'le	b	80	56	0
Tenworth	b	86	46	0
Tenab'rn	–	..	..	.
Placerie	b	69	57	0
Tecannia	–	..	..	..
Narr'undi	b	70	49	0
Tesslis..	–	..	..	.
Ris'br'ok	b	74	50	0
Tubbo...	b	77	55	0
Tenindie	–	..	.	.
Budgee..	–	..		..
Nutland.	b	74	51	0
Hill End.	–	.	.	..
Newcastle	b	78	51	0
Range...	b	68	46	0
Bathurst	b	72	43	
13 68		Ea		0
Ford's	b	73	53	0
Victoria	b	77	45	0
Condob'lin	g	72	50	0
Deton..	b	73	42	0
Narcoar..	b	70	47	
Tentw'th		..	..	
Young...	b	79	59	0
Collgo'ng	b	69	53	0
Bay....	b	86	62	0
Moss Vale	b	70	46	0
Euston...	b	93	65	0
Goulburn	b	76	42	0
Tagga...	b	79	47	0
Cape Geo.	b	67	59	0
Tucanb'n	b	80	52	0
Tenilq'in	b	86	55	0
Coruya..	b	87	49	0
Kandra..	b	100	52	0
Albury	b	88	46	0
B'd'lla	b	74	41	0
Cooma	b	78	40	0
Eden	b	67	49	0
Gabo	–	..	..	..

W.G. Wellington
CG. Cape George
Ma. Moruya
b. Eden
Go. Gabo
A P. Wilsons Pt
CO. Cape Howe
M. Melbourne
P. Portland
bo. Bourke
Re. Rose
CB. Cape Borda
A. Adelaide
Ea. Eucla
As. Alice Springs
PD. Port Darwin

TIME BALL
Drops at 1 p.m. M.T. or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG VAR. 9° 35 30 E

METEOROLOGICAL REPORTS.—NOVEMBER 10.

Western Australia: Cloudy round S.W. coast, light E. wind. Rain—Perth, 0·370; Albany, 0·030. South Australia: Fine weather throughout the colony, generally cloudy near Victorian border; smooth sea, steady barometers, and light E. and S.E. winds on coast; fine and calm inland. Victoria: Cloudy and dull with light S.E. winds, slowly rising barometers, and smooth sea, no rain. Tasmania: Low Heads, fine light N.N.W. wind. New South Wales: Cloudy throughout, raining in and near New England district; smooth sea, rising barometers, and light S.E. and southerly winds on coast. (See weather map, page 6.) Queensland: Cloudy and raining, with strong N. and N.W. winds, sea moderate. 3 p.m. Observations.—Victoria: Barometers rising; Melbourne, S., 18, fine, temperature 60°; Portland, S.E., 28, fine, smooth sea, temperature 57°; Cape Otway, S.E., 3, fine, temperature 59°; Wilson's Promontory, S.W., 18, fine, smooth sea, temperature 59°. New South Wales: Forbes, calm, cloudy, temperature 70°; Eden, N.E., 14, cloudy, light easterly sea, temperature 65°; Moruya, E., moderate, moderate sea; Cape George, S.E., 28, like rain, smooth sea, temperature 64°; Sydney, S.E., 14, light rain, smooth sea, temperature 62°; Newcastle, S., dull smooth sea; Port Macquarie, E., 14, dull, smooth sea, temperature 74°. New Zealand: Fine generally, with moderate westerly winds. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 10 inches above summer level; at Hay, 5 feet above summer level; at Balranald, 9 feet above summer level. Murray: At Albury, 3 feet 3 inches above summer level; at Euston, 10 feet above summer level. Darling: At Wentworth, 9 feet 4 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

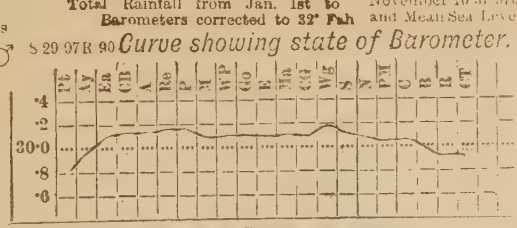
COMPILED from TELEGRAMS for 9 A.M., NOV. 10 1884, with NOTES to 3 P.M.

Sydney Observatory.

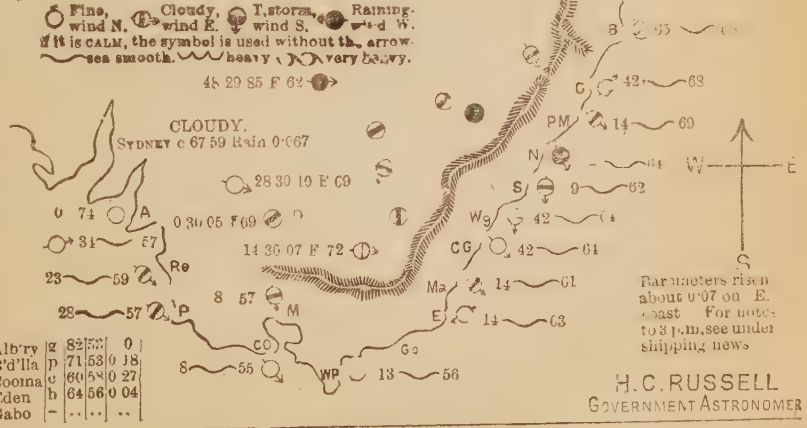
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·43
Average for 23 years from Jan. 1st to October 31 ..... 45·526
Total Rainfall from Jan. 1st to November 10 37·970
Barometers corrected to 32° Fah and Mean Sea Level.

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.



WG, Wellington
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pro
CO, Cape Howe
M, Melbourne
P, Portland
Bo, Bourke
Re, Rene
CG, Cape Borda
A, Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockhampton
B, Brisbane
C, Cooper
PM, Port Mac
N, Newcastle
Sydney

TIME BALL
Drops at 1 p.m. G.M.T. or 2h 55m 37·1s a.m. Greenwich Time
MAG. VAR. 9° 35 30 E

...ations	g	84	56		0
...ter'fld	g	82	52		0
...e....	g	84	64		0
...ton..	b	81	72	0	05
...n Inn's	g	84	46		0
...verell..	b	76	57		0
...urke ..	p	68	62	1	60
...rrabri	g	83	57		0
...mitdale	g	74			0
...adem'n	g	79	42	0	07
...nned'h	r	91	46	0	30
...onamle	-	..	..		..
...nworth	p	95	55	0	14
...onab'n	d	84	51	0	26
...Macqrie	c	76	64		0
...ilcannia	g	78	61	0	14
...rr'undi	r	74	58	0	58
...ssliis..	r	74	46		0
...us'br'ok	r	85	56	0	19
...bbo...	r	84	63	0	23
...enindie	b	81	61	0	01
...udgee...	r	77	50	0	37
...itland.	p	81	61		0
...ill End.	c	75	..	0	09
...ewcastle	r	75	58	0	10
...ange..	g	73	54	0	08
...thurst	g	73	53	0	14
...Forb's	c	72	56		0
...Vict'ria	r	69	42		0
...ndob'ln	g	68	54		0
...cton..	g	75	56		0
...rcoar..	g	68	53	0	10
...entw'th	b	8)	59		0
...oung...	g	79	56	0	10
...ollgo'ng	g	69	65		0
...ay....	b	80	63		0
...oss Vale	r	64	51	0	03
...nston...	b	91	56		0
...oulburn	g	72	50	0	10
...agga...	b	84	60		0
...ape Geo.	b	75	54		0
...ueanb'n	g	71	43	0	10
...eniliq'in	c	81	54		0
...oruya..	g	67	55		0
...iandra..	g	65	33		0

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 11.

Western Australia: Perth, gloomy and threatening, rain 0·020; Albany, fine and clear, with light S.W. wind and moderate sea. South Australia reports weather very fine but hot, winds easterly or calm, barometers falling, sea moderate; broken clouds at places on south coast; no rain. Victoria: Weather cloudy, winds light from S.E. and calm; barometers steady; sea smooth; no rain. Low Heads, Tasmania: Fine, with moderate N. E. wind. New South Wales: Cloudy; rain still falling in the N. and N.W. districts; smooth sea, fresh S.E. winds, and steady barometers on coast; fine in S.W. (Riverina) districts. (For amounts of rain and weather at 9 a.m. at each station see weather map, page 6.) Queensland: Weather cloudy and raining; strong E. wind, moderate easterly swell; rain at Cape Moreton, 1·940 inches; Rockhampton, 0·360 inches; Brisbane, 0·120. 3 p.m. Observations.—Victoria: Barometers falling; Melbourne, S.S.W., fine, temperature 63°; Portland, E.S.E., 23, fine, smooth sea, temperature 59°; Cape Otway, E.S.E., 18, fine, smooth sea, temperature 63°; Wilson's Promontory, E.N.E., 28, fine, temperature 63°. New South Wales: Wentworth, S.E., fine, hot, temperature 79°; Deniliquin, calm, fine, temperature 84°; Albury, calm, fine, temperature 77°; Goulburn, E., dull, temperature 65°; Forbes, calm, cloudy, temperature 70°; Eden, E., 14, fine, light sea, temperature 63°; Moruya, N.E., 14, fine, moderate sea, temperature 58°; Cape George, S.S.E., 28, fine, smooth sea, temperature 66°; Sydney, S., 28, dull, smooth sea, temperature 62°; Newcastle, S.E., fine smooth sea: Port Macquarie, calm, showery, smooth sea, temperature 69°; Clarence River, calm, raining, sea smooth, temperature 69°; Menindi, calm, fine, temperature 76°. New Zealand: Fine generally, with light westerly winds. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 10 inches above summer level; at Hay, 4 feet 9 inches above summer level; at Balranald, 9 feet above summer level. Murray: At Albury, 3 feet 3 inches above summer level; at Euston, 11 feet 6 inches above summer level. Darling: At Wentworth, 9 feet 4 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 11 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 11,37 999
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.L	R'in
Casino..	c	80	60	0 49
Tenterfild	r	73	53	0
Moree....	c	71	64	0 36
Grafton..	r	80	62	0 40
Gl'n Inn's	r	85	45	0
Inverell..	p	77	55	0
Bourke ..	c	74	62	2 30
Narrabri	r	72	57	1 70
Armidale	r	75	[illegible]	0 32
Bendem'r	r	64	42	0 15
Gunned'h	r	75	53	0 62
Coonam'le	c	68	37	0 60
Tamworth	p	74	63	0 55
Coonab'rn	d	72	41	0 86
P.Macqrie	r	74	62	0 59
Wilcannia	b	87	63	0
Murr'undi	r	67	46	0 25
Cassilis..	r	79	56	0 50
Mus'br'ok	g	73	55	0 02
Dubbo...	g	74	57	0 13
Menindie	b	80	59	0 26
Mudgee..	p	70	56	0 05
Maitland.	g	70	61	0 35
Hill End.	c	70	.	0
Newcastle	c	69	58	1 34
Orange..	g	65	49	0
Bathurst	g	61	50	0
13 —		E		
Forb's	g	72	55	0
Mt Vict'ria	p	54	43	0 10
Condob'ln	b	70	51	0
Picton..	g	63	56	0
Carcoar..	b	65	50	0
Wentw'th	b	85	60	0
Young...	b	74	52	0
Wollgo'ng	b	66	56	0
Hay....	b	85	59	0
Moss Vale	b	60	48	0
Euston...	b	96	56	0
Goulburn	g	63	47	0
Wagga...	b	81	59	0
Cape Geo.	b	65	53	0
Queanb'n	b	70	54	0
Deniliq'in	g	82	50	0
Moruya..	b	67	55	0
Kiandra..	c	64	32	0
Alb'ry	b	91	55	0
B'd'lla	g	67	53	0 02
Cooma	c	71	45	0 02
Eden	b	95	65	0
Gabo	–	..	..	..

As 13 30 06R 78 *Curve showing state of Barometer.*

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.

— 29 82 F 67

CLOUDY.
SYDNEY c 64 59 Rain 0·029

14 30 13 R 75

3 76 A

14 30 04 F72 D

18 66

0 30 10 R 67

13 61

Re

0 63

28 59 P M

CO

8 60

WP 23 63

Go

Ma 14 62

E 14 60

CG 21 64

Wg 14 65

S 16 61

N 4 65

PM 14 65

C 14 63

B 65 67

R 74

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pr'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Clonce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

W — E
S

Barometers risen about 0·04 on S E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 12.

Victoria: Fine and clear, with light N.E. winds, smooth sea, and slowly-falling barometers; fine, clear weather, with light N.E. wind in north of Tasmania. (No reports from S. of island.) New South Wales: Still cloudy in the N. and N.W. district, smooth sea, rising barometers, and light N.E. and S.E. winds and calms on coast. Queensland: Rockhampton, fine and clear, with light E.S.E. wind; Cape Moreton, sea moderate, east wind. 3 p.m. Observations.—Victoria: Barometers steady. Portland, E.S.E., 10, fine, sea smooth, temperature 62°; Cape Otway, E., 10, fog, smooth sea, temperature 65°; Wilson's Promontory, N.E., 18, hazy, smooth sea, temperature 67°. New South Wales: Wentworth, N.W., hot, temperature 82°; Albury, W., fine, clear, temperature 79°; Goulburn, calm, fine, warm, temperature 65°; Eden, N.E., fine, moderate sea, temperature 66°; Moruya, calm, fine, moderate sea, temperature 61°; Cape George, E.N.E., 10, fine, moderate sea, temperature 65°; Sydney, S.S.E., cloudy, smooth sea, temperature 66°; Clarence River, S., raining, moderate sea, temperature 69°; Menindie, S.E., fine, hot, temperature 80°. New Zealand: Fine generally, S.W. winds generally blowing 20 to 30 miles per hour. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 7 inches above summer level; at Hay, 4 feet 5 inches above summer level; at Balranald, 9 feet above summer level. Murray: At Albury, 3 feet 3 inches above summer level; at Euston, 11 feet 6 inches above summer level. Darling: At Wentworth, 9 feet 6 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from Telegrams for 9 A.M., NOV. 12 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S.; Long. 1 h. 4m. 50 s. E

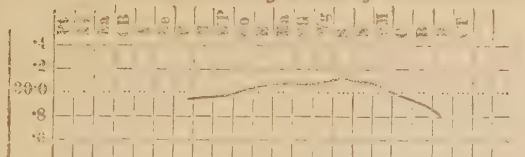
Average Annual Rainfall for 23 years [illegible]

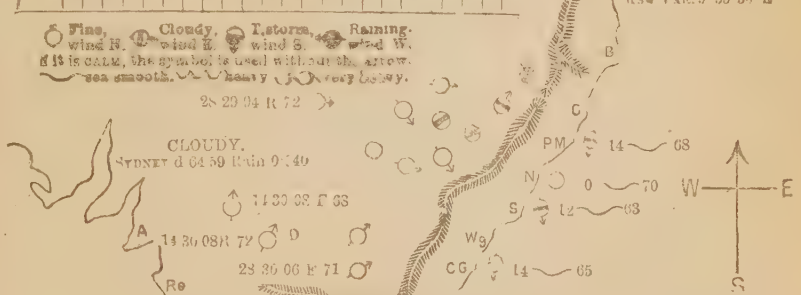
Average for 23 years from Jan. 1st to [illegible]

Total Rainfall from Jan. 1st to [illegible]

Barometers corrected to 32° Fah. and Mean Sea Level.

Curve showing state of Barometer.





Stations	W'th	M'x	M'n	R'in
Casino..	p	72	60	1 62
Tenterfild.	g	58	51	0 04
Moree....	b	81	60	0 54
Grafton..	g	72	52	0 79
Gl'n Inn's	g	84	50	0 12
Inverell..	-	70	57	.
Bourke ..	b	76	62	0 18
Narrabri	b	73	56	0 10
Armidale	r	60	[illegible]	0 57
Bendemeer	g	[illegible]	[illegible]	[illegible]
Gunned'h.				
Coonamble	c	[illegible]	[illegible]	0 05
Tamworth	b	75	48	0 13
Coonab'rn	b	68	49	0 31
P. Macqr'e	g	66	55	0 14
Wilcannia	b	9[illegible]	[illegible]	0
Murr'undi	b	66	53	0 21
Cassilis..	g	74	55	0 05
Mus'br'ok	g	68	54	0 20
Dubbo...	b	70	59	0
Menindie	b	83	50	0
Mudgee..	b	68	53	0
Maitland.	g	74	59	1 00
Hill End.	c	70	[illegible]	0
Newcastle	b	75	61	0 06
Orange..	b	64	46	0
Bathurst	b	63	49	0
	6			
Forb's	b	77	53	0
Mt Vict'ria	f	56	44	0 70
Condob'lin	b	75	51	0
Picton..	g	68	56	0
Carcoar..	b	65	50	0
Wentw'th	b	92	60	0
Young...	b	71	54	0
Wollgo'ng	-	...	.	.
Hay....	b	80	61	0
Moss Vale	b	59	47	0
Euston...	b	96	55	0
Goulburn	b	64	40	0
Wagga...	b	82	56	0
Cape Geo.	c	71	52	0
Queanb'n	b	75	47	0
Deniliq'n	b	88	59	0
Moruya..	b	69	53	0
Kiandra..	b	85	40	0

Alb'ry	b	91	54	0
B'd'lla	b	72	47	0 02
Cooma	b	72	44	0 02
Eden	b	59	54	0
Gabo	-	..	..	..

H. C. RUSSELL
Government Astronomer

METEOROLOGICAL REPORTS.—November 14.

Victoria : Cloudy generally with variable wind. Thunder showers at Omeo, and raining lightly at Portland. 1·04 having fallen up to 9 a.m.; hot sultry weather at Wilson's Promontory, and squally at Lake Entrance; smooth sea at Wilson's Promontory and Portland. Tasmania: Fine with light N.W. wind; barometer, 29 68. New South Wales : Fine generally, prevailing wind N.E.; showery at Casino, and raining at Wentworth, see weather map; like rain at Tenterfield, Glen Innes, and Walcha; fog at Picton early this morning. The barometer has fallen about ·10; smooth and moderate sea on east coast. Queensland : Rockhampton, fine with light easterly breeze, and showery at Brisbane; fresh breeze from E.S.E. and moderate sea at Cape Moreton. 3 p.m. Observations.—Victoria : Melbourne, S., 8, raining, temperature 59·; Portland, S.W., 18, cloudy, slight sea, temperature 63·; Wilson's Promontory, W., 23, showery, slight sea, temperature 49·. New South Wales : Wentworth, S.W., showery, temperature 63·; Deniliquin, S.W., raining, temperature 82·; Albury, N., strong, cloudy, like change, temperature 81·; Goulburn, calm, fine, temperature 78·; Forbes, calm, cloudy, sultry, temperature 79·; Eden, N.N.E., 42, cloudy, light east sea, temperature 71·; Cape George, N.E., 42, fine, smooth sea, temperature 67·; Sydney, N.E., strong, light, cloudy, smooth sea, temperature 70·; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., 14, fine, smooth sea, temperature 77·; Menindie, W.S.W., showery, temperature 71·. New Zealand : Generally fine, with light variable winds; barometer about 30·00. State of Rivers.—Murrumbidgee : At Wagga, 3 feet 9inches above summer level; at Hay, 4 feet above summer level. Murray : At Albury, 3 feet above summer level: at Euston, 11 feet above summer level. Darling : At Wentworth, 9 feet 7 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 14 1888, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

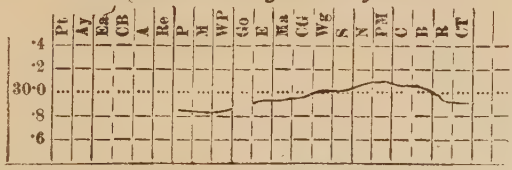
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..46·525
Total Rainfall from Jan. 1st to November 14 38·039.
Barometers corrected to 32° Fah and Mean Sea Level

Stations	W't	M'x	M.S	R'in
Casino..	p	72 56	0	
Tenterfield	u	72 51	0	
Moree....	b	88 67	0	
Grafton..	g	73 62	0	12
Gl'n Inn's	u	84 50	0	
Inverell..	b	77 53	0	71
Bourke ..	b	84 70	0	
Narrabri	b	34 61	0	
Armidale	c	70 ..	0	
Bendem'r	b	68 42	0	
Canned'h	.	..	.	
Coonamble	b	86 57	0	
Tamworth	b	93 53	0	
Coonab'rn	b	82 52	0	
P.Macqrie	g	73 59	0	
Wilcannia	g	77 55	0	
Murr'undi	b	78 55	0	
Cassilis..	b	75 44	0	
Mus'br'ok	b	85 52	0	
Dubbo...	b	84 61	0	
Menindie	o	81 68	0	
Mudgee..	b	82 66	0	
Maitland.	b	78 59	0	
Hill End.	b	77 ..	0	
Newcastle	b	81 61	0	
Orange..	b	72 52	0	
Bathurst	b	78 47	0	
Forb's	b	80 60	0	
Mt Vict'ria	b	79 48	0	
Condob'lin	b	81 54	0	
Picton..	b	84 49	0	
Carcoar..	b	76 56	0	
Wentw'th	r	97 63	0	
Young...	b	81 61	0	
Wollgo'ng	b	70 59	0	
Hay....	c	95 61	0	
Moss Vale	b	78 52	0	
Euston...	c	92 67	0	
Goulburn	b	84 45	0	
Wagga...	b	89 61	0	
Cape Geo.	b	71 57	0	
Queanb'n	b	90 53	0	
Deniliq'in	b	92 58	0	
Moruya..	c	71 55	0	
Kiandra..	b	73 38	0	

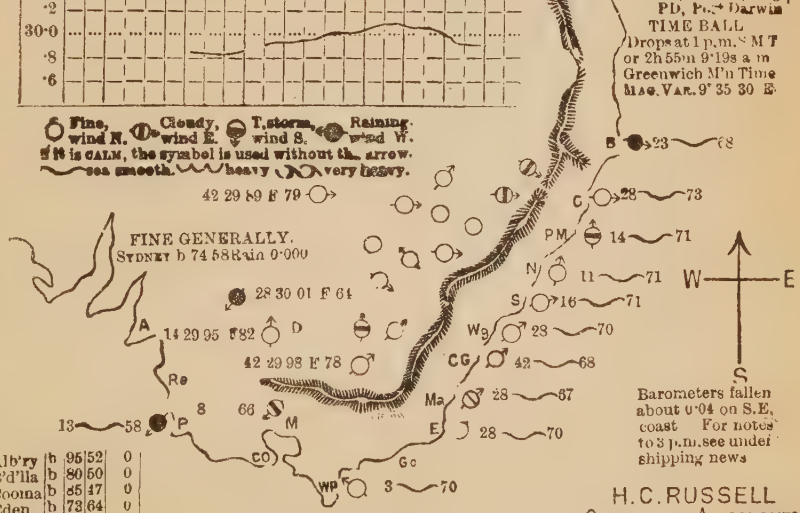
Alb'ry	b	95	52	0
B'd'lla	b	80	50	0
Cooma	b	55	47	0
Eden	b	73	64	0
Gabo	–	..	..	..

As

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 15.

Western Australia: Fine and clear, with light N.E. wind and smooth sea. South Australia: Cloudy on southern coast, with light S.W. winds, moderate sea, and steady barometers; fine inland at Alice Springs; gloomy at Daly Waters. Victoria: Cloudy round coast; raining at Portland; sea smooth, barometers steady, winds light from S.W. and W.; rain, Melbourne 0·740, Wilson's Promontory 0·320, Cape Otway 7·720, Portland 0·030, Lake Entrance 0·240, Echuca 0·360. Low Heads, Tasmania: Fine, with light W. wind. New South Wales: Cloudy, raining S. and W. and N.W., smooth sea, falling barometers, and light N.E. winds on coast. (For particulars re rain and weather, see map.) Fine inland at Bourke, Wilcannia, Menindie, and Deniliquin. Queensland: Cloudy, light S.E. and N.E. winds, sea moderate from E. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 8, cloudy, temperature 68°; Portland, S.W., 23, cloudy, sea smooth, temperature 63°; Cape Otway, W.N.W., 23, cloudy, sea slight, temperature 65°; Wilson's Promontory, S.W., 8, cloudy, sea smooth, temperature 63°. New South Wales: Wentworth, N.W., fine, temperature 68°; Albury, S.W., cloudy, temperature 74.; Goulburn, N.E., raining, temperature 69°; Eden, S.W., 14, showery, light easterly sea, temperature 64°; Moruya, S.E., 14, cloudy, easterly sea setting in, temperature 62°; Sydney, E., 8, cloudy, sea smooth, temperature 65°; Newcastle, N.W., cloudy, smooth sea; Port Macquarie, N.E., cloudy, smooth sea, temperature 73°; Menindie, S.S.W., fine. New Zealand: Fine generally, with N.W. winds in North Island, and S.W. winds to south. State of Rivers.—Murrumbidgee: At Hay, 4 feet above summer level; at Balranald, 8 feet above summer level. Murray: At Albury, 3 feet 1 inch above summer level; at Euston, 12 feet above summer level. Darling: At Wentworth, 9 feet 10 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

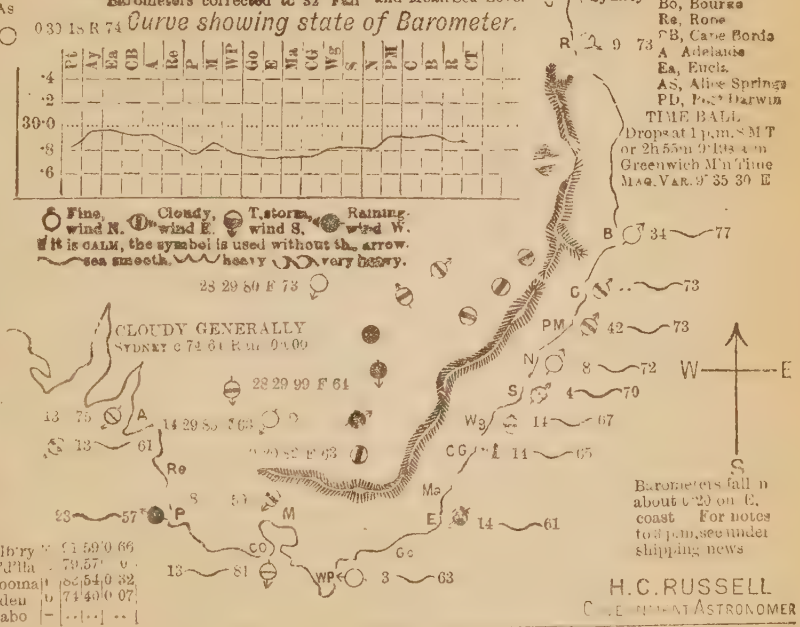
COMPILED from TELEGRAMS for 9 A.M., NOV. 15 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to October 31 . 45·526
Total Rainfall from Jan. 1st to November 15 38·183.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	wt	M'x	Min	R'fin
Cairns..	c	74	57	0 02
Tenterfild	g	73	51	0
Moree....	g	86	66	0 02
Grafton..	g	73	61	0
Gl'n Inn's	c	82	50	0
Inverell..	b	73	62	0
Bourke ..	b	87	68	0 48
Narrabri	r	86	61	0 01
Armidale	g	72	..	0
Bendem'r	g	79	41	0
Gunned'h	-	..	..	.
Coonam'le	-	..	..	-
Tamworth	c	99	61	0
Coonab'rn	g	84	62	0
P.Macqrie	m	76	64	0
Wilcannia	b	84	62	0
Murr'undi	g	82	64	0
Cassilis..	g	85	63	0
Mus'br'ok	g	89	60	0
Dubbo...	g	88	63	0 76
Menindie	b	72	57	0 03
Mudgee..	r	98	64	0 04
Maitland.	g	72	64	0
Hill End.	r	76	..	2 10
Newcastle	b	81	62	0
Orange..	g	80	59	0 36
Bathurst	r	84	60	0 46
	E			
Forb's	r	79	61	0 93
Mt Vict'ria	r	78	51	0 08
Condob'lin	-	..	.	.
Picton..	d	83	58	0 01
Carcoar..	r	77	59	0 30
Wentw'th	c	66	54	0 08
Young...	r	83	61	1 00
Wollgo'ng	c	73	61	0
Hay....	b	59	57	0 33
Moss Vale	r	77	57	0 20
Euston...	b	96	47	0 42
Goulburn	r	87	59	0 20
Wagga...	r	92	62	0 68
Cape Geo.	c	74	59	0
Queanb'n	g	88	60	0 47
Deniliq'in	b	53	48	0 23
Moruya..	-	..	.	.
Kiandra..	c	51	23	0 74



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 16.

South Australia: Cloudy weather, winds light from S.W. and S.E., sea rough, barometers steady; rain, Adelaide 0·140, Borda 0·100, Robe 0·050, Daly Waters 0·100; cloudy on telegraph line overland. Victoria: Cloudy and raining round coast, sea smooth, barometers steady, winds light from S.W. and S.E., thunderstorm during night; rain, Melbourne 0·630, Wilson's Promontory 0·140, Cape Otway 0·040, Lake Entrance 0·300. Low Heads, Tasmania: Raining lightly, wind W. New South Wales: Fine at majority of stations, cloudy near Queensland border, smooth sea, falling barometers, and light westerly winds and calms on coast, warm and calm inland. (For rainfall, &c., see weather map, page 6.) Queensland: Cloudy, with light S.E. and S.W. winds. 3 p.m. Observations.—Victoria: Melbourne, S., 13, fine, temperature 60°; Cape Otway, W.S.W., 18, overcast, threatening, sea smooth; Wilson's Promontory, W., 18, squally, sea smooth, temperature 59°. New South Wales: Wentworth, N., showery, temperature 62°; Deniliquin, S.E., dull, temperature 72°; Albury, S.W., cloudy, temperature 70.; Goulburn, calm, fine, temperature 68°; Forbes, calm, cloudy, temperature 71°; Eden, E.S.E., 28, fine, light sea, temperature 64°; Moruya, S.E., 28, fine, moderate sea, temperature 69°; Cape George, N.E., 28, fine, smooth sea, temperature 68°; Sydney, E.N.E., 1, fine, sea smooth, temperature 71°; Newcastle, N.E., fine, smooth sea; Port Macquarie, W., 14, fine, smooth sea, temperature 76°; Menindie, S.W., fine, temperature 72°. New Zealand: Fine generally, with light S.W. winds in North Island, and light N.W. winds in South Island; heavy rain from N.W. at the Bluff. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 9 inches above summer level; at Hay, 3 feet 10 inches above summer level; at Balranald, 8 feet above summer level. Murray: At Albury, 3 feet 5 inches above summer level; at Euston, 12 feet above summer level. Darling: At Wentworth, 9 feet 10 inches above summer level; at Pooncarie, Menindie, and Wilcannia, summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 16 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

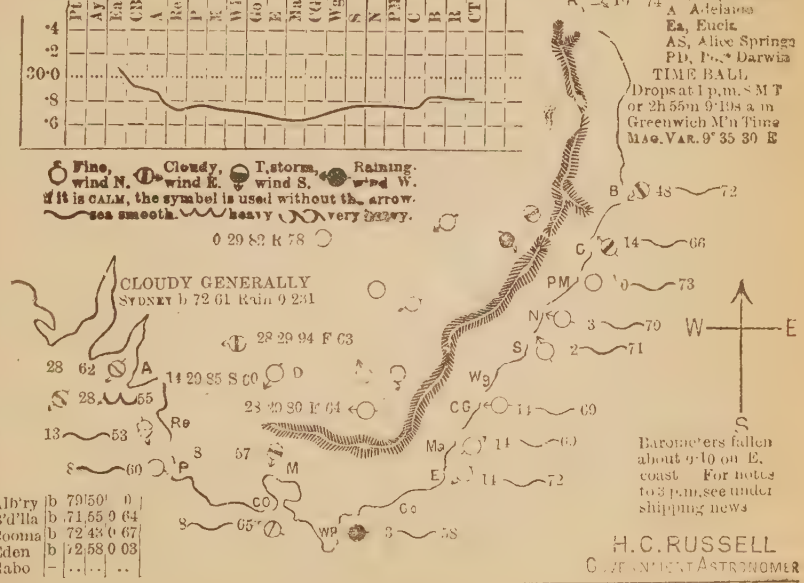
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 16 38 414.
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.

Fine, wind N. **Cloudy, wind E.** **T.storm, wind S.** **Raining. wind W.**
If it is CALM, the symbol is used without the arrow.
sea smooth. **heavy** **very heavy.**

Stations.	W'th	M'x	M.t	R'in
Casino..	c	84	62	0 35
Tenterfild.	r	71	56	0 72
Moree....	b	72	68	0 03
Grafton..	p	71	63	0 22
Gl'n Inn's	b	84	50	1 59
Inverell..	p	72	63	0 90
Bourke ..	b	84	63	0
Narrabri	c	74	60	0 56
Armidale	b	68	..	0 46
Bendem'r	g	68	35	0 70
Gunned'h	.	.		.
Coonam'le	–	...		
Tamworth	b	75	56	0 46
Coonab'rn	b	72	53	0 65
P.Macqric	b	76	65	0
Wilcannia	b	87	61	0
Murr'undi	b	68	61	0 65
Cassilis..	b	71	55	0 35
Mus'br'ok	b	76	57	0 36
Dubbo...	b	77	56	0 33
Menindie	b	81	55	0
Mudgee..	b	69	50	0 81
Maitland.	b	79	62	0
Hill End.	b	73		0 40
Newcastle	b	81	60	0 03
Orange..	b	67	46	0 80
Bathurst	b	63	47	0 71
8 63				
Forb's	b	76	54	0
Mt Vict'ria	b	61	47	0 02
Condob'ln	b	79	47	0
Picton..	–	.	.	..
Carcoar..	b	75	55	0 63
Wentw'th	c	75	69	0
Young...	b	70	51	0 33
Wollgo'ng	-	.		.
Hay....	b	74	50	0
Moss Vale	b	64	49	0 06
Euston...	c	71	44	0
Goulburn	b	70	47	0 69
Wagga...	b	77	52	0
Cape Geo.	b	70	51	0 27
Queanb'n	b	70	51	0 20
Deniliq'in	b	76	46	0
Moruya..	b	69	54	0 11
Kiandra..	b	53	25	0 30

Alb'ry	b	79	50	0
B'd'lla	b	71	55	0 64
Cooma	b	72	43	0 67
Eden	b	72	58	0 03
Gabo	–	..	..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 17.

Western Australia: Fine and clear, with light easterly wind; sea moderate; no rain. South Australia reports cloudy weather; rain falling in eastern part of colony; wind fresh from S.E. and S.W.; sea smooth, barometers rising; rain, Borda 0·020, Robe 0·030, raining inland at Daly Waters, measurement 0·900. Victoria: Raining all round coast, with strong south-westerly winds, steady barometers, and rough sea; rain, Melbourne 1·140, Portland 0·160, Lake Entrance 0·360, Cape Otway 0·090, Wilson's Promontory 0 640; low barometer over Wilson's Promontory. Low Heads, Tasmania: Cloudy, with light S.E. wind. New South Wales: Fine and clear at majority of stations, clouds still scattered about near Queensland border; smooth sea, light N.W. winds, and falling barometers on coast. (See weather map.) Queensland: Fine, with light N.E. and N.W. winds; sea moderate; rain, Brisbane 0·560, Rockhampton 0·050. 3 p.m. Observations.—Victoria: Melbourne, S.W., 34, showery, temperature 55°; Portland: S., 40, cloudy, sea rather rough, temperature 59°; Cape Otway, S.W., 40, squally, sea rather rough; Wilson's Promontory, W.S.W., 23, showery, sea moderate, temperature 56°. New South Wales: Deniliquin, S.W., dull, temperature 88°; Albury, N.W. light, showery, temperature 64°; Goulburn, S.W., cloudy, temperature 65°; Forbes, calm, fine, temperature 68°; Eden, S.W., 28, showery, sea smooth, temperature 60°; Cape George, W., 42, cloudy, sea smooth, temperature 74°; Sydney, W., 14, fine, sea smooth, temperature 75.; Newcastle, N.W., fine, sea smooth; Port Macquarie, S.E., fine, sea smooth, temperature 75°. New Zealand: Fine generally; light S.W. winds in North Island, S.E. in South Island; S.E. rain at Bluff. It will be seen that a barometric depression lies to the east of Tasmania, and strong S.W. winds and rains are reported from Victoria in its rear; but the barometer curve indicates rapidly rising barometers in Adelaide and fine weather. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 4 feet above summer level. Murray: At Albury, 3 feet 8 inches above summer level. Darling: At Wentworth, 10 feet 11 inches above summer level; at Pooncarie and Menindie, summer level; at Wilcannia, 3 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV'. 17 1881, with NOTES to 3 P.M

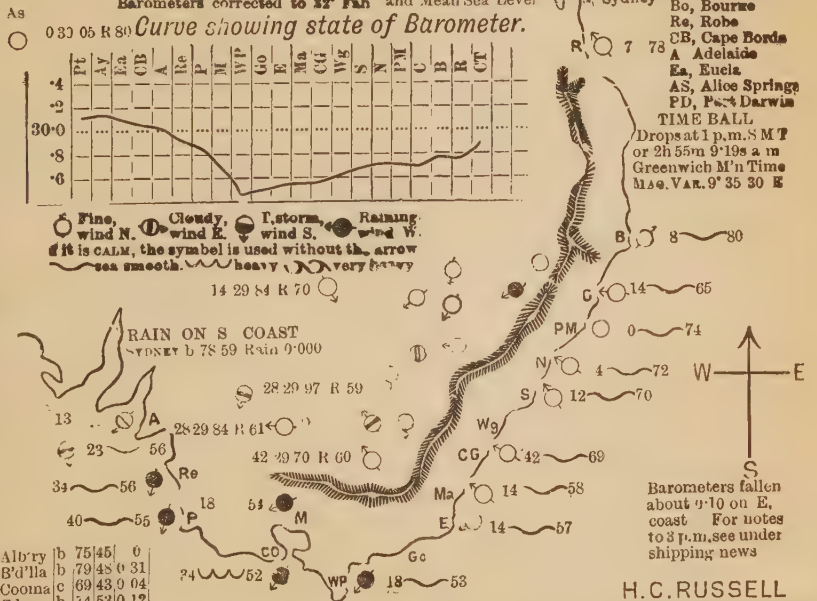
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 17 38 414.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	M'n	M.S	R'in
Casino..	b	85 59		0
Tenterfild	r	76 48	0	10
Moree....	b	86 64		0
Grafton..	c	81 64	0	79
Gl'n Inn's	b	84 41		0
Inverell..	b	75 54		0
Bourke ..	b	84 61		0
Narrabri	c	82 58		0
Armidale	b	71 ..		0
Bendem'r	c	70 47		0
Gunned'h	–	..		.
Coonam'le	c	81 57		0
Tamworth	b	83 47		0
Coonab'rn	b	78 52		0
P.Macqrie	b	77 61		0
Wilcannia	b	80 58		0
Murr'undi	c	75 59		0
Cassilis..	b	77 59		0
Mus'br'ok	b	84 59		0
Dubbo...	b	78 59		0
Menindie	b	73 53		0
Mudgee..	b	82 53		0
Maitland.	b	81 61		0
Hill End.	b	70 ..		0
Newcastle	b	86 62		0
Orange..	c	70 46	0	07
Bathurst	b	71 49	0	03
18 63		E		
Forb's	b	75 50		0
Mt Vict'ria	b	72 45	0	01
Condob'lin	b	75 45		0
Picton..	b	80 56		0
Carcoar..	b	70 61	0	05
Wentw'th	c	73 50	0	15
Young...	b	74 51		0
Wollgo'ng	–	..		.
Hay....	b	72 48		0
Moss Vale	b	71 47	0	19
Euston...	–	..		
Goulburn	g	73 45	0	12
Wagga...	g	75 52		0
Cape Geo.	b	74 50	0	16
Queanb'n	g	73 48	0	05
Deniliq'in	b	77 44		0
Moruya..	b	72 52	0	11
Eiandra..	p	41 24	1	26

Alb'ry	b	75	45	0
B'd'lla	b	79	48	0 31
Cooma	c	69	43	0 04
Eden	b	74	53	0 12
Gabo	–	..	..	..



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 18.

Western Australia: Perth, fine and clear; gloomy and threatening at Albany; sea moderate, winds light from S.S.E. South Australia: Weather cloudy, with light S.W. winds; slowly falling barometers and smooth sea. Rain—Daly Waters, 0·020. Fine on overland telegraph line. Victoria: Cloudy and raining round coast; barometers rising, sea moderate, wind light from S.W. Rain—Melbourne, 0·330; Portland, 0·120; Lake entrance, 0·990; Otway, 1·180. Low Heads, dull, fresh S.W. wind. New South Wales: Fine, clear, warm weather, smooth sea, light S.W. and W winds and steady barometers on coast; inland the weather is warm, N.W. winds in N. half, S.W. in S. half of the colony. Queensland: Weather cloudy in N. of colony, and fine S. of and at Brisbane; wind from N.W., sea moderate. 3 p.m. Observations.—Victoria: Portland, S., 34, showery, moderate sea, temperature 59°; Wilson's Promontory, W., 18, cloudy slight sea, temperature 64°. New South Wales: Wentworth, S.W., fine, temperature 68.; Deniliquin, S.W., cloudy, temperature 70°; Albury, W., cloudy, temperature 64°; Goulburn, W., fine, temperature 63°; Forbes, calm, cloudy, temperature 71°; Eden, S.W., 28, showery, light sea, temperature 63°; Moruya, S.E., 23, thunderstorm, moderate sea, temperature 56°; Cape George, S.S.W., 14, cloudy, smooth sea, temperature 60°; Sydney, S.W., 28, fine, smooth sea, temperature 72°; Newcastle, W.S.W., fine, smooth sea; Port Macquarie, W.S.W., 42, fine, smooth sea, temperature 80°; Menindie, S.W., fine, temperature 70°. New Zealand: Fine generally, with light S.E. winds; rain from S.E.; Gisborne, weather squally, and rough sea. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 4 feet above summer level; at Balranald, 7 feet 2 inches above summer level. Murray: At Albury, 3 feet 9 inches above summer level: Euston, 12 feet above summer level. Darling: At Wentworth, 9 feet 11 inches above summer level; at Pooncarie and Menindie, summer level; at Wilcannia, 5 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 18 1888, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 18 38 414.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W't	W'x	M.d	R'in
Casino..	b	87 55	0	75
Tenterfild	b	78 50		0
Moree....	b	85 59		0
Grafton..	b	81 63		0
Gl'n Inn's	b	85 41		0
Inverell..	b	78 48		0
Bourke ..	b	78 60		0
Narrabri	b	83 54		0
Armidale	b	72 ..		0
Bendem'r	c	74 48		0
Gunned'h	b	84 46		0
Coonam'le	c	78 50		0
Tamworth	b	84 47		0
Coonab'rn	b	74 48		0
P.Macqrie	b	78 56		0
Wilcannia	b	76 56		0
Murr'undi	b	74 57		0
Cassilis..	b	75 53		0
Mus'br'ok	b	84 57		0
Dubbo...	b	78 57		0
Menindie	b	73 51		0
Mudgee..	b	79 53		0
Maitland.	b	81 60		0
Hill End.	b	73 ..		0
Newcastle	b	86 56		0
Orange..	b	65 41		0
Bathu st	b	66 48		0
Ts 68		E		
Forb's	c	68 49		0
Mt Vict'ria	b	72 43		0
Condob'lin	c	69 45		0
Picton..	b	74 56		0
Carcoar..	b	65 48		0
Wentw'th	b	72 49	0	02
Young...	g	74 50		0
Wollgo'ng	b	80 55		0
Hay...	b	72 47		0
Moss Vale	b	65 47		0
Euston...	g	73 44		0
Goulburn	b	65 45	0	03
Wagga...	b	70 50		0
Cape Geo.	b	73 51		0
Queanb'n	b	64 53		0
Deniliq'in	b	67 47		0
Moruya..	b	76 53		0
Kiandra..	p	47 25	1	35

Alb'ry	b	65	49	0	05
B'd'lla	b	79	48		0
Cooma	c	65	44		0
Eden	b	68	54	0	30
Gabo	–	..	..		..

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—November 19.

Western Australia: Perth, fine and clear. South Australia: Cloudy round coast, sea smooth, bars steady and falling, winds light and variable, no rain; inland stations not received. Victoria: Cloudy weather round coast, barometers rising very slowly in east, and steady in west of colony; sea slight, except on S.E. coast (Lake entrance), where it is rough; wind light from S.W.; rain, Melbourne 0·010, Otway 0·070 showery at Lake Entrance. Low Heads, Tasmania: Dull, light S.E. wind. New South Wales: Fine clear weather prevails throughout colony; on the coast the winds are from S.W. at all stations; sea smooth; barometers rising; inland calm and warm. Queensland: Brisbane, fine with strong N.W. wind, sea smooth; Rockhampton, cloudy, with light N.W. wind. 3 p.m. Observations.—Victoria: Barometers rising; Cape Otway, W., 14, cloudy, smooth sea, temperature 58°; Portland, S.S.W., 13, cloudy, smooth sea, temperature 59°; Wilson's Promontory, N., 13, cloudy, sea smooth, temperature 68°. New South Wales: Albury, W., 10, fine, clear, temperature 70°; Moruya, S.S.E., 20, raining, moderate sea, temperature 64°; Sydney, S.S.E., fine, moderate sea, temperature 68°; Port Macquarie, S., 23, fine, smooth sea temperature 75°; Eden, S.S.W., 14, cloudy, moderate sea, temperature 65°; Cape George, S., 14, fine, clear, smooth sea, temperature 71°; Newcastle, S.E., fine, sea smooth; New Zealand: Light N.E. winds at Wellington, cloudy. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 9 inches above summer level; at Hay, 3 feet 10 inches above summer level; at Balranald, 7 feet above summer level. Murray: At Albury, 3 feet 5 inches above summer level; at Euston, 12 feet above summer level. Darling: At Wentworth, 9 feet 11 inches above summer level; at Pooncarie and Menindie, summer level; at Wilcannia, 6 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 19 1888, with NOTES to 2 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45·525
Total Rainfall from Jan. 1st to November 19 38·414
Barometers corrected to 32° Fah and Mean Sea Level

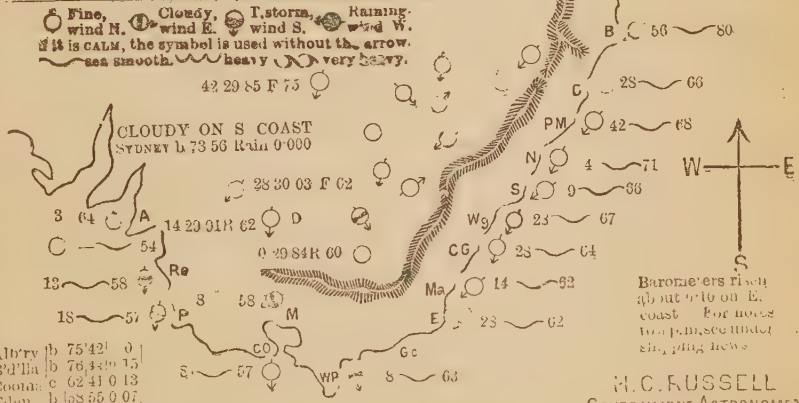
Stations	W'r	W'x	M.	R'fall
Casino..	b	81 53		0
Tenterfild	b	72 41		0
Moree....	b	80 59		0
Grafton..	b	83 65		0
Gl'n Inn's	b	85 41		0
Inverell..	b	75 47		0
Bourke ..	b	81 59		0
Narrabri	b	81 55		0
Armidale	c	73 ..		0
Bendem'r	g	72 44		0
Gunned'h	c	85 38		0
Coonam'le	-	..	.	0
Tamworth	b	82 42		0
Coonab'rn	b	75 43		0
P.Macqrie	b	82 57		0
Wilcannia	b	84 57		0
Murr'undi	b	71 54		0
Cassilis..	b	70 49		0
Mus'br'ok	b	80 47		0
Dubbo...	b	76 48		0
Menindie	b	77 59		0
Mudgee..	b	71 46		0
Maitland.	b	80 57		0
Hill End.	b	70 ..		0
Newcastle	b	90 53		0
Orange..	b	60 48		0
Bathurst	b	61 45		0
18 56		E		
Forb's	b	76 51		0
Mt Vict'ria	b	58 45		0
Condob'lin	b	71 59		0
Picton..	b	79 48		0
Carcoar..	b	63 49		0
Wentw'th	b	73 49		0
Young...	p	67 56	0	10
Wollgo'ng	b	69 50		0
Hay....	b	72 49		0
Moss Vale	b	63 45	0	04
Euston...	b	74 45		0
Goulburn	b	64 44	0	17
Wagga...	b	70 48		0
Cape Geo.	b	72 50	0	33
Queanb'n	b	69 46		0
Deniliq'in	b	72 55.		0
Moruya..	b	74 50	0	35
Kiandra..	b	58 87	1	20

Alb'ry	b	75 42	0
B'd'lla	b	76 45	0 15
Coona	c	62 41	0 13
Eden	b	58 55	0 07
Gabo	-	..	..

As

Curve showing state of Baromenew.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Barometers rise about 0·10 on E. coast. For notes to p.m. see under sailing news.

W.G. Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
W P, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
PB, Cape Bordia
A Adelaide
Ea, Eucla
As, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. = M 7 or 2h 55m 9·198 a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—November 21.

Western Australia: Gloomy weather prevails round S.W. coast, winds light from west, and no rain. South Australia reports weather to be still threatening, rains having fallen generally speaking south of Port Augusta; the barometers on south coast are rising, but very slowly; the sea is smooth, and the wind southerly; heavy rains reported north of Alice Springs; Daly Waters 0·350, Port Darwin 0·900. Victoria: Cloudy weather round coast but clearing, winds fresh from S.E., sea smooth and moderate; barometers rising; rain: Lake entrance 0·060, Otway 0·140, Portland 0·220. Low Heads, Tasmania: Fine weather, fresh S.E. wind. New South Wales: Weather on coast fine and clear, cloudy on mountains and inland to S.W. and S.S.W. of Sydney, where rain is falling at many places; for particulars see Weather Map; fine weather to N.W. and N. Queensland: Fine and clear with light easterly and westerly winds, sea smooth. 3 p.m. Observations.—Victoria: Melbourne, S., 13, cloudy, temperature 62°; Portland, W.S.W., cloudy, slight sea, temperature 60°; Cape Schank, S.E., 40, fine, sea moderate; Wilson's Promontory, E., 28, dull, sea rather rough, temperature 60°. New South Wales: Wentworth, S., threatening, temperature 62°; Albury, W., cloudy, temperature 64°; Goulburn, W., raining, temperature 61°; Forbes, calm, threatening, temperature 66°; Eden, E.S.E., 28, showery light, heavy easterly sea, temperature 60°; Moruya, S.W., 20, gloomy, sea moderate, temperature 69°; Cape George, S., 42, thunderstorm, sea smooth, temperature 63°; Sydney, W.S.W., 28, raining, sea smooth, temperature 55°; Newcastle, W.N.W., strong, raining, sea smooth; Port Macquarie, S.W., 42, fine, sea smooth, temperature 74°; Menindie, S., cloudy, temperature 68°. New Zealand: Fine generally with light southerly winds, except heavy S.W. gale at Gisborne, with high sea. Reference to the Map shows that rain was reported this morning from most of the stations south of Dubbo, 1·47 reported from Moruya. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 8 inches above summer level; at Hay, 3 feet 9 inches above summer level. Murray: At Albury, 3 feet 10 inches above summer level; at Euston, 11 feet 9 inches above summer level. Darling: At Wentworth, 9 feet 10 inches above summer level; at Pooncarie and Menindie, summer level; at Wilcannia, 8 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 21 1881, with NOTES to 3 P.M.

Sydney Observatory.

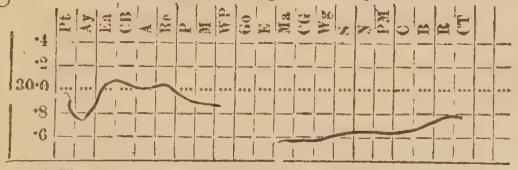
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 526.
Total Rainfall from Jan. 1st to November 21 38·869.
Barometers corrected to 32° Fah. and Mean Sea Level

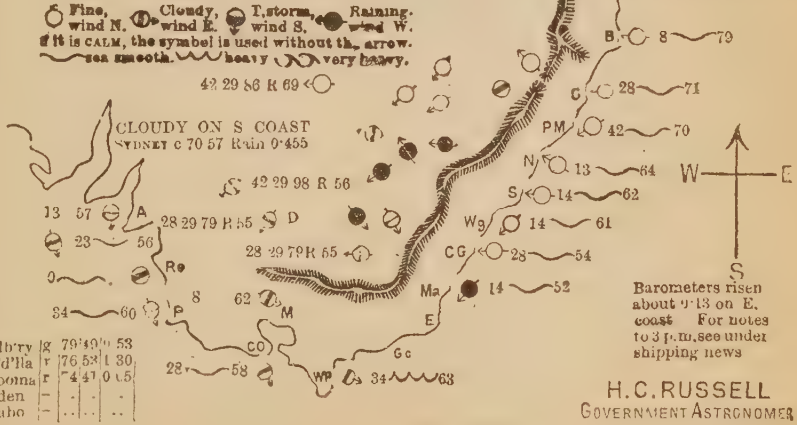
Stations	W.	B.	Rain
Casino..	b	88 54	0
Tenterfield	c	80 29	0
Moree....	b	84 58	0
Grafton..	b	86 52	0
Gl'n Inn's	b	84 58	0
Inverell..	b	75 46	0
Bourke ..	b	84 51	0
Narrabri	b	85 54	0
Armidale	b	74 ..	0
Bendem'r	g	78 42	0
Gunned'h	c	.. ..	..
Coonamb'e	b	86 54	0
Tamworth	c	92 48	0 04
Coonab'rn	b	81 42	0 05
P.Macqrie	b	73 59	0 55
Wilcannia.	b	81 52	0
Murr'undi.	b	72 53	0
Cassilis..	g	80 50	0
Mus'br'ok	b	88 53	0
Dubbo...	c	80 56	0 19
Menindie	b	73 48	0 07
Mudgee..	b	80 48	0 33
Maitland.	b	79 57	0 65
Hill End.	c	72 ..	0 87
Newcastle	b	77 53	0 33
Orange..	r	70 46	0 46
Bathurst	r	73 44	0 14
☾ 8 66		E	
Forb's	g	70 51	0 47
Mt Vict'ria	p	69 39	0 17
Condob'lin	g	60 50	0 50
Picton..	b	79 51	1 01
Carcoar..	r	72 45	0 35
Wentw'th	g	66 45	0 04
Young...	p	71 49	0 59
Wollgo'ng	b	72 53	0
Hay.....	g	79 48	0 25
Moss Vale	c	79 46	0 69
Kuston...	b	74 40	0 05
Goulburn	r	77 42	0 90
Wagga...	g	80 50	0 44
Cape Geo.	b	66 47	0 79
Queanb'n	g	76 46	0 10
Deniliq'in	g	80 40	0 48
Moruya..	r	80 51	1 47
Kiandra..	p	45 22	1 40

Alb'ry	g	79 49	0	53
B'd'lla	r	76 58	1	30
Cooma	r	74 47	0	05
Eden	–	..	..	..
Gabo	–	..	..	..

0 3 10—76 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Barometers risen about 0·13 on E. coast For notes to 3 p.m. see under shipping news

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Prom
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockh't'n
B, Brisbane
C, Clonce R.
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 22.

South Australia : Reports fine warm weather throughout; barometers falling; wind light from north; sea moderate; calm and fine on overland telegraph line. Victoria : Cloudy weather still prevails round coast line, but clearer to W. near South Australia border; sea moderate; barometers rising slowly; wind from S.E. Rain : Melbourne, 0·080; Wilson's Promontory, 0·070; Lake Entrance, 0·110. Low Head, Tasmania, dull, light N.E. wind. New South Wales : Fine weather at majority of stations; cloudy on coast S. of Newcastle; sea rising, wind fresh from S. and increasing; barometers rising; fine on coast N. of Newcastle; sea smooth. Queensland : Fine and clear with light S.W. and N. winds; sea moderate. 3 p.m. Observations.—Victoria : Melbourne, S.S.W., 18, fine, temperature 65°; Portland, E.S.E., 28, fine, smooth sea, temperature 62°: Cape Schank, E., 23, fine, smooth sea; Wilson's Promontory, E., 23, fine, rather rough sea, temperature 64°. New South Wales : Wentworth, N., fine, temperature 72°; Deniliquin, S.W., fine, temperature 66°; Albury, W., light, fine, temperature 68°; Goulburn, calm, fine, temperature 65°; Forbes, calm, fine, temperature 70°; Eden, S.W., 28, showery, heavy sea, temperature 65°; Moruya, S.E., 56, dull, very heavy sea, temperature 64°; Cape George, S., 56, fine, heavy sea, temperature 63°; Sydney, S., 28, cloudy, moderate sea, temperature 66°; Newcastle, S.W., light, dull, smooth sea; Port Macquarie, S.S.E., fine, smooth sea, temperature 77°; Menindie, calm, fine, temperature 74°. New Zealand : Fine generally with light westerly winds except at Gisborne, where a strong S.W. wind is blowing, making a high sea. State of Rivers.—Murrumbidgee : At Wagga, 5 feet 5 inches above summer level; at Hay, 3 feet 8 inches above summer level; at Balranald, 6 feet 5 inches above summer level. Murray : At Albury, 4 feet 2 inches above summer level : at Euston, 11 feet 7 inches above summer level. Darling : At Wentworth, 4 feet 10 inches above summer level; at Pooncarie and Menindie, summer level; at Wilcannia, 3 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 22 1881, with NOTES to 3 P.M.

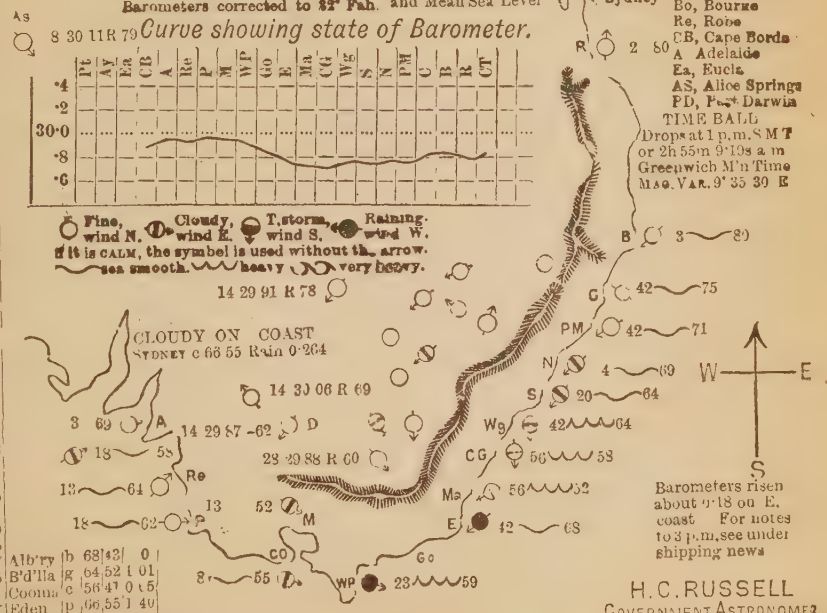
Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525
Total Rainfall from Jan. 1st to November 22 39 133.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W'th	W'S	M.	Rain
Casino..	b	82 57		0
Tenterfield	b	71 41		0
Moree....	b	58 51		0
Grafton..	b	86 61		0
Gl'n Inn's	b	81 45		0
Inverell..	b	73 42		0
Bourke ..	b	81 56		0
Narrabri	b	85 49		0
Armidale	b	73		0
Bendem'r	g	78 35		0
Gunned'h	b	66 45		0
Coonam'le	-	.	.	--
Tamworth	b	75 46		0
Coonab'rn	b	68 39		0
P.Macqrie	b	77 56		0
Wilcannia	b	88 54		0
Murr'undi	b	64 51		0
Cossilis..	b	64 45		0
Mus'br'ok	b	75 53		0
Dubbo...	b	77 57		0
Menindie	b	78 56		0
Mudgee..	b	65 50	0	16
Maitland.	c	73 56	0	15
Hill End.	b	65	..	0 70
Newcastle	g	75 56	0	01
Orange..	b	59 44	0	70
Bathurst	g	58 44	0	15
	E			
Forb's	b	70 52		0
Mt Vict'ria	g	68 39	0	07
Condob'ln	b	70 43	0	04
Picton..	g	64 5		0
Carcoar..	b	63 45	0	60
Wentw'th	b	71 53		0
Young...	b	70 50	0	42
Wollgo'ng	g	84 55	0	11
Hay....	b	69 49		0
Moss Vale	c	56 47	0	50
Euston...	b	72 49		0
Goulburn	g	60 47	0	30
Wagga...	b	69 46	0	45
Cape Geo.	g	65 49	1	07
Queanb'n	b	60 55	0	65
Deniliq'in	b	70 44		0
Moruya..	g	64 52	0	57
Kiandra..	b	56 32	0	80

Alb'ry	b	68	42	0
B'd'lla	g	64	52	1 01
Cooma	c	56	47	0 05
Eden	p	66	55	1 40
Gabo	-	..	..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 23.

Western Australia: Fine and clear, light southerly winds; rain at Perth, 0·160. South Australia reports warm dusty weather along coast with clouds, wind northerly, sea moderate; barometers falling in E. and rising in W. of colony; fine and warm, with light N.W. winds, on overland line; cloudy at Port Darwin; rain, 0·800; barometers rising to westward, change is now coming up to us. Victoria: Weather still cloudy round coast, sea moderate, barometers falling, winds fresh from N. Rain—Portland, 0·060; Lake Entrance, 0·100. Tasmania: Low Heads—cloudy, wind fresh from N.E. New South Wales: Fine clear weather throughout, smooth sea, rising barometers, and light winds on coast; fine, warm, and calm inland. Queensland: Fine, light S.E. and S.W. winds, sea moderate. 3 p.m. Observations.—Victoria: Melbourne, N.E., 8, showery, temperature 65°; Portland, W., 40, cloudy, sea smooth, temperature 62°; Wilson's Promontory, N.E., 23, cloudy, sea rather rough; Cape Otway, N., 16, cloudy, sea slight, temperature 66°. New South Wales: Albury, N., cloudy, temperature 70°; Goulburn, W., fine, temperature 70°; Forbes, calm, cloudy, sultry, temperature 73°; Eden, N.E., 14, fine, sea light, temperature 64°: Moruya, N.E., 28, fine, sea rough, temperature 67°; Cape George, N.E., 42, fine, sea smooth, temperature 66°; Sydney, E., 14, fine, sea smooth, temperature 66°; Newcastle, E., fine, sea smooth; Port Macquarie, S.E., 14, fine, sea smooth, temperature 71°. New Zealand: Fine generally, with light westerly winds and cloudy weather. (It will be seen on reference to the barometer curve on the weather map that there was a depression at Robe at 9 a.m. this morning with northerly hot winds, while the southerly winds on the following side of the depression are reported at Eucla, and will be at Adelaide to-morrow.) State of Rivers.—Murrumbidgee: At Wagga, 5 feet 5 inches above summer level; at Hay, 3 feet 8 inches above summer level; at Balranald, 9 feet above summer level. Murray: At Albury, 4 feet 3 inches above summer level: at Echuca, 11 feet 4 inches above summer level. Darling: At Wentworth, 9 feet 9 inches above summer level; at Pooncarie and Menindie, summer level; at Wilcannia, 8 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 23 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

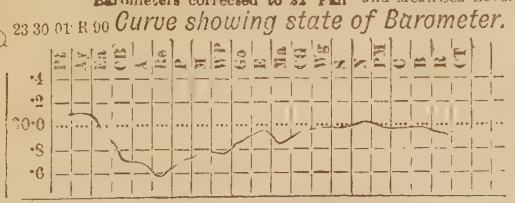
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525
Total Rainfall from Jan. 1st to November 23 39 143.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	Cl	W'S	M.	R'in
Casino..	b	91	54	0
Tenterfild	b	72	42	0
Moree....	b	82	56	0
Grafton..	b	89	64	0
Gl'n Inn's	b	84	42	0
Inverell..	b	75	46	0
Bourke ..	b	86	62	0
Narrabri	b	80	53	0
Armidale	c	75		0
Bendem'r	c	80	35	0
Gunned'h	c	89	46	0
Coonam'le	b	82	54	0
Tamworth	b	84	46	0
Coonab'rn	b	80	44	0
P.Macqrie	b	80	58	0
Wilcannia	c	91	54	0
Murr'undi	b	73	54	0
Cossilis..	b	77	53	0
Mus'br'ok	b	85	54	0
Dubbo...	b	77	58	0
Menindie	b	89	50	0
Mudgee..	b	79	54	0
Maitland.	g	76	60	0 20
Hill End.	b	70	..	0
Newcastle	b	74	60	0
Orange..	b	70	40	0
Bathurst	b	72	45	0
13 69		E		
Forb's	b	72	55	0
Mt Vict'ria	b	71	48	0
Condob'in	b	82	47	0
Picton..	g	72	54	0 05
Carcoar..	b	70	45	0
Wentw'th	c	84	53	0
Young...	b	73	59	0
Wollgo'ng	g	80	57	0
Hay....	b	83	54	0
Moss Vale	b	64	50	0
Euston...	b	91	55	0
Goulburn	b	69	49	0
Wagga...	b	77	52	0
Cape Geo.	b	69	53	0
Queanb'n	b	73	53	0 05
Deniliq'in	b	81	54	0
Moruya..	b	67	56	0
Kiandra..	b	58	35	0 20

Alb'ry	b	82	50	0
B'd'lla	g	71	52	0
Cooma	b	64	39	0
Eden	b	67	50	0 02
Gabo	–	..	..	..

As 23 30 01 R 90

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

14 29 90 F 84

CLOUDY ON S COAST
SYDNEY c 68 59 Rain 0·010

28 29 90 F 74

18 79 A 14 29 88 R 76 D

23 62

14 29 99 R 64

22 63 Re

18 73 M

28 60 P

CO

13 65

WP 24 64

Go

Ma 14 66

E 14 67

CG 28 63

Wg 0 67

S 1 65

N 3 66

PM 14 69

C 0 71

B 13 80

R 73

R. Rockh'n
B. Brisbane
C. Clence R.
PM. Pt. Mac
N. Newc'tle
S. Sydney

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pr'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Roma
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

W — E
S

Barometers rise about 9·18 on E. coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 24.

Western Australia: Fine and clear, light southerly winds and smooth sea. South Australia reports weather on coast fine and cool; wind fresh from S.E. and S.W.; bars rising; sea rough at Borda, showery at Macdonnell Bay; rain, 0·310; fine inland. Victoria: Cloudy, and raining along coast; winds strong from west, sea rough, barometers rising in W. and falling in E. of colony; rain, Melbourne, 0·290; Portland, 0·170; Wilson's Promontory, 0·520; Otway, 0·470. Low Heads, Tasmania: Fine, strong W. wind. New South Wales: Fine, clear, and warm; smooth sea, rapidly falling barometers, and strong northerly winds on coast; wind freshened as day wore on, becoming very gusty: barometers very unsteady; no rain. Queensland: Fine and clear, light northerly wind, sea smooth; no rain. 3 p.m. observations.—Victoria: Barometers rising, strong gale from W.N.W. to W.S.W. is blowing on the coast, weather showery; Melbourne, W., 28, cloudy, squally showers, temperature 60°; Portland, W.S.W., 48, passing showers, smooth sea, temperature 56°; Cape Otway, W.N.W., 56, passing showers, high sea, temperature 58°; Wilson's Promontory, W., 34, passing showers, high sea, temperature 58°. New South Wales: Albury, W., strong, cloudy, temperature 64°; Goulburn, W., strong, fine, temperature 64°; Forbes, calm, fine, temperature 69°; Eden, S.W., 20, showery, heavy easterly sea, temperature 64°; Moruya, E.N.E., 28, cloudy, smooth sea, temperature 65°; Cape George, W., 56, little sea, temperature 66°; Sydney, W., 42, fine, smooth sea, temperature 73°; Newcastle, W.N.W., strong, fine, smooth sea; Port Macquarie, N.N.E., fine, smooth sea, temperature 68°; Clarence River, N.E., fine, smooth sea, temperature 78°. New Zealand: Moderate depression over Timaru; N. winds in North island, S.E. winds in south. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 9 inches above summer level; at Hay, 3 feet 5 inches above summer level; at Balranald, 5 feet 9 inches above summer level. Murray: At Albury, 5 feet 6 inches above summer level: at Euston, 11 feet 4 inches above summer level. Darling: At Wentworth, 9 feet 7 inches above summer level; at Pooncarie, summer level; at Menindie, 2 feet above summer level; at Wilcannia, 9 feet 3 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 24 1888, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

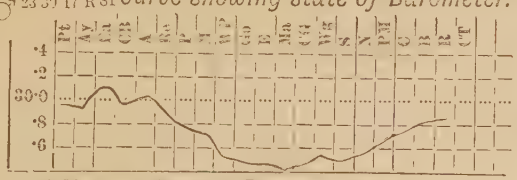
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 528
Total Rainfall from Jan. 1st to November 24 39 143.
Barometers corrected to 32° Fah and Mean Sea Level

Stations	Wt	wN.M.	R'in
Casino..	b	88 55	0
Tenterfield	b	85 54	0
Moree....	b	89 62	0
Grafton..	b	92 64	0
Gl'n Inn's	b	84 42	0
Inverell..	b	72 49	0
Bourke ..	b	91 71	0
Narrabri	b	87 60	0
Armidale	b	75	0
Bendem'r	b	81 42	0
Gunned'h	b	92 47	0
Coonam'le	b	92 62	0
Tamworth	b	92 44	0
Coonab'rn	b	84 45	0
P.Macqrie	b	77 64	0
Wilcannia	b	89 61	0
Marr'undi	b	77 60	0
Cossilis..	b	91 42	0
Mus'br'ok	b	80 53	0
Dubbo...	b	84 62	0
Menindie	b	91 55	0
Mudgee..	b	84 54	0
Maitland.	b	79 51	0
Hill End..	b	72 ..	0
Newcastle	b	75 60	0
Orange..	b	76 52	0
Bathurst	b	7 53	0
23 65		E	
Forb's	b	74 56	0
McVict'ria	b	75 53	0
Condob'lin	–	..	–
Picton..	b	77 55	0
Carcoar..	b	70 55	0
Wentw'th	b	94 51	0
Young...	b	74 53	0
Wollgo'ng	b	77 60	0
Hay....	b	85 74	0
Moss Vale	b	72 55	0 05
Paxton...	b	93 49	0
Goulburn	b	77 51	0
Wagga...	b	85 54	0 10
Cape Geo.	b	73 57	0
Queanb'n	b	80 56	0 03
Deniliq'in	b	88 48	0
Moruya...	g	70 58	0
Kandra..	p	45 21	1 50

Albury	b	86 53	0 04
B'd'lla	b	76 54	0
Cooma	g	72 51	0
Eden	g	70 56	0 04
Jabo	–	..	..

As 23 30 17 R 81

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

56 29 66 F 77

RAIN ON S COAST
SYDNEY b 80 59 Rain 0·006

56 30 05 R 63

23 62 A 28 29 89 R 59 D

34 58

56 29 73 R 58

23 57 Re

23 57 M

34 51 P

CO

49 58

WP 28 58

Ma 28 67

E 28 58

Ge

CG 28 79

Wo 28 75

S 16 69

N 4 68

PM 42 75

C 48 80

B 18 62

R 3 79

W.C. Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'ty
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Bordn
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R.Rockh't'n
B, Brisbane
C, Cooee R
PM, Pt.Mac
N, Newcastle
S, Sydney

TIME BALL
Dropped 1 p.m. M T
or 2h 55m 9·128 s. a.m.
Greenwich M'n Time
MAG VAR. 9° 35 30 E

Barometers fell in about 9·40 on E. coast for notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 25.

Western Australia: Fine and clear, light N.W. wind and smooth sea on S.W. coast, no rain. South Australia: Broken clouds on southern coast, sea smooth, barometers steady, winds light and variable; fine and warm inland, with light S.E. and N.E. winds and calms; another depression is showing at Albany this morning. Victoria: Weather still very heavy all round coast, sea high, wind strong from west, barometers falling; raining since yesterday morning, squally and showery. Rain: Melbourne, 0·180; Wilson's Promontory, 0·460; Otway, 0·670; Portland, 0·430. Low Heads, Tasmania: Cloudy, fresh N.W. wind. New South Wales: Fine, clear weather throughout, light S.W. and N.W. winds and calms inland, smooth sea, rising barometers, and moderate westerly breezes on coast. Queensland: Fine, with light N.W. and S.E. winds, weather warm. 3 p.m. Observations.—Victoria: Barometers rising; Melbourne, S.W., 28, squally, temperature 60°; Portland, S.S.W., 34, fine, smooth sea, temperature 59°; Cape Otway, S.W., 28, fine, rough sea, temperature 57; Wilson's Promontory, W.S.W., 28, squally, rough sea, upper clouds from S.E., temperature 59°. New South Wales: Wentworth, S., strong, temperature 72°; Albury, W. strong, cloudy, temperature 74°; Goulburn, W. strong, fine, temperature 64°; Forbes, calm, fine, temperature 72°; Eden, S.W., 28, showery, smooth sea, temperature 61°; Moruya, NW., 28, fine, smooth sea, temperature 73°; Cape George, W.S.W., 42, fine, smooth sea, temperature 66°; Sydney, N.E., 28, fine, smooth sea, temperature 70°; Newcastle, W., fine, smooth sea; Port Macquarie, N.E., 42, fine, smooth sea, temperature 73°; Meningie, S.S.W., fine, temperature 72°; Pooncarie, hot, gale. New Zealand: Last night heavy N.W. rain and thunderstorm at Russell; heavy S.W. gale at Taranaki; rain from S.W. at Hokitika; thunderstorms and heavy S.W. gale at Timaru. Fine and calm this morning generally, except at Gisborne, where there is heavy rain from N.E. State of Rivers.—Murrumbidgee: Wagga, 5 feet 7 inches above summer level; at Hay, 3 feet 6 inches above summer level; at Balranald, 5 feet 6 inches above summer level. Murray: At Albury, 5 feet 9 inches above summer level: at Euston, 10 feet 9 inches above summer level. Darling: At Wentworth, 9 feet 6 inches above summer level; at Pooncarie, summer level; at Menindie, 4 feet 6 inches above summer level; at Wilcannia, 8 feet 9 inches above summer level,

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 25 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 25 39 143.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'h	W'x	M.	R'in
Casino..	b	99	54	0
Tenterfild	b	89	44	0
Moree....	b	93	59	0
Grafton..	b	95	61	0
Gl'n Inn's	b	84	40	0
Inverell..	b	85	42	0
Bourke ..	b	82	59	0
Narrabri	b	90	54	0
Armidale	b	82		0
Bendem'r	b	78	41	0
Gunned'h	–	..	..	..
Coonam'le	b	81	50	0
Tamworth	b	95	49	0
Coonab'rn	b	81	38	0
P.Macqrie	b	91	56	0
Wilcannia	b	84	58	0
Murr'undi	b	81	49	0
Cassilis..	b	78	43	0
Mus'br'ok	b	91	49	0
Dubbo...	b	79	54	0
Menindie	b	78	55	0
Mudgee..	b	77	45	0
Maitland.	b	88	57	0
Hill End.	b	73	..	0
Newcastle	b	91	53	0
Orange..	b	65	45	0
Bathurst	b	65	44	0
34 63		E		
Forb's	b	71	53	0
Mt Vict'ria	b	64	44	0
Condob'ln	b	73	43	0
Picton..	b	75	44	0
Carcoar..	b	79	48	0
Wentw'th	b	74	49	0
Young...	b	71	49	0
Wollgo'ng	b	80	52	0
Hay....	b	68	50	0
Moss Vale	b	66	47	0
Euston...	b	74	46	0
Goulburn	b	64	46	0
Wagga...	c	71	49	0
Cape Geo.	b	77	42	0
Queanb'n	g	65	48	0
Deniliq'in	b	72	48	0
Moruya..	b	74	46	0
Kiandra..	b	54	29	0

Alb'ry	g	70	44	0	
B'd'lla	b	76	39	0	
Cooma	c	63	38	0	11
Eden	b	67	49	0	12
Gabo	–	..	..	..	

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 26.

South Australia: Barometers about 30·10, generally fine, threatening rain at Eucla, rough sea at Cape Borda. Victoria: Cloudy weather round coast, sea moderate, barometers rising, wind fresh from S.E., no rain falling. Low Heads, Tasmania: Fine, light N. wind. Rain: Melbourne, 0·260; Portland, 0·010; Wilson's Promontory, 0·020; Cape Otway, 0·040; Lake Entrance, 0·200; Echuca, 0·020. New South Wales: Fine weather to N. and N.W. of Sydney, cloudy on coast, southwards sea heavy, barometers rising, wind strong from S., rain falling in showers. For amounts, &c., see weather maps. Queensland: Fine and clear, light variable winds and moderate sea. 3 p.m. Observations.—Victoria: Thermometers steady; Cape Otway, S.E., 28, fine, clear, sea smooth; Portland, E.S.E., 34, fine, sea smooth, temperature 63°; Wilson's Promontory, N.E., 28, fine, sea rough, temperature 65°. New South Wales: Wentworth, N., fine, warm, temperature 73°; Albury, S.E., strong, fine, temperature 69°; Goulburn, S., 10, fine, temperature 64°; Eden, S., 20, showery, sea moderate, temperature 64°; Moruya, S., 20, fine, heavy sea, temperature 65°; Cape George, S., 20, showery, heavy sea, temperature 64°; Sydney, S., 30, fine, sea moderate, temperature 66°; Newcastle, S.S.W., 20, showery, sea moderate; Port Macquarie, S. 30, cloudy, sea smooth, temperature 74°; Menindie, calm, fine, temperature 77° New Zealand: Showery generally, with S.W. winds; heavy swell at Timaru; rain at Wellington, 0·48. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 4 inches above summer level; at Hay, 3 feet 5 inches above summer level; at Balranald, 8 feet above summer level. Murray: At Albury, 5 feet 5 inches above summer level; at Euston, 7 feet 7 inches above summer level. Darling: At Wentworth, 9 feet 4 inches above summer level; at Pooncarie, summer level; at Menindie, 6 feet 2 inches above level; at Wilcannia, 8 feet 4 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 26 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

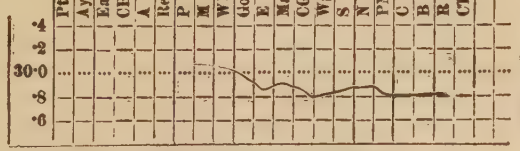
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 26 39 143.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	M'x	M.n	R'in
Casino..	b	94	54	0
Tenterfild	b	78	54	0
Moree....	b	81	62	0
Grafton...	b	93	60	0
Gl'n Inn's	b	84	49	0
Inverell..	b	72	47	0
Bourke ..	b	85	61	0
Narrabri	b	88	55	0
Armidale	b	75	..	0
Bendem'r	b	75	41	0
Gunned'h	b	88	48	0
Coonam'le	b	84	56	0
Tamworth	b	85	46	0
Coonab'rn	b	78	47	0
P.Macqrie	b	78	57	0
Wilcannia	b	88	58	0
Murr'undi	b	77	59	0
Cassilis..	b	77	54	0
Mus'br'ok	b	84	53	0
Dubbo...	b	78	57	0
Menindie	b	83	57	0
Mudgee..	b	77	51	0
Maitland.	b	81	60	0
Hill End.	b	70	..	0
Newcastle	b	91	56	0
Orange..	b	75	45	0
Bathurst	b	68	46	0
Forb's	b	73	54	0
Mt Vict'ria	b	65	43	0
Condob'lin	b	70	46	0
Picton..	b	74	58	0
Carcoar..	b	67	49	0
Wentw'th	b	78	49	0
Young...	b	70	47	0
Wollgo'ng	–	..	..	0
Hay....	b	75	51	0
Moss Vale	r	65	45	0
Euston...	b	77	46	0
Goulburn	b	64	43	0
Wagga...	b	79	48	0 10
Cape Geo.	p	69	50	0 41
Queanb'n	b	65	46	0
Deniliq'n	b	72	45	0 02
Moruya..	q	76	55	0 05
Kiandra..	c	54	29	0 80

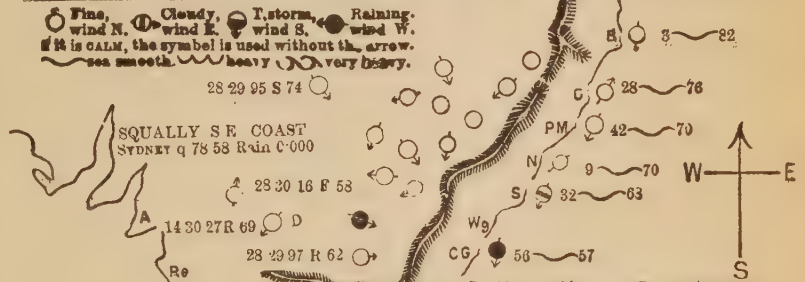
Alb'ry	b	69	41	0 20
B'd'lla	q	77	52	0
Cooma	c	62	38	0 03
Eden	p	70	55	0 12
Gabo	–	..	..	..

As

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Barometers risen about 0·25 on S E coast For notes to 3 p.m. see under shipping news

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Ge, Gabo
WP, Wilsons Pt.
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Bonda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockh't'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N. Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

WEATHER MAP.

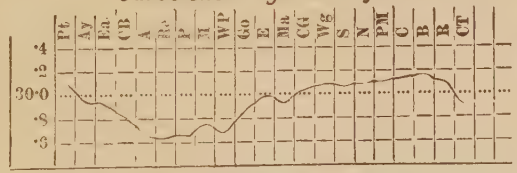
COMPILED from TELEGRAMS for 9 A.M., NOV. 28 1881, with NOTES to 3 P.M.

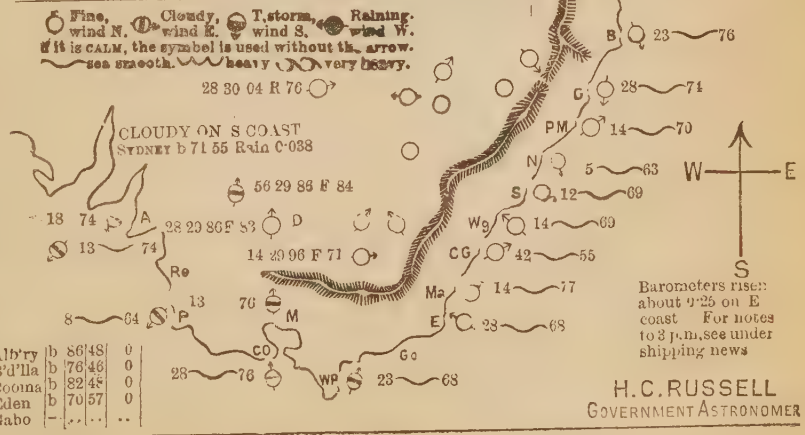
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 28 39 181.
Barometers corrected to 32° Fah. and Mean Sea Level

Curve showing state of Barometer.





WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pr'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Ro, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R
PM, Pt. Mac
N, Newc'tle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0·25 on E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

Stations	w'th	b'm	ht	rain
Casino..	b	82 58		0
Tenterfield	b	83 44		0
Moree....	b	90 64		0
Grafton..	b	87 59		0
Gl'n Inn's	b	85 43		0
Inverell..	b	78 48		0
Bourke ..	b	86 63		0
Narrabri	b	85 53		0
Armidale	b	76 ..		0
Bendem'r	b	79 41		0
Gunned'h	–	..		.
Coonamble	–	..		.
Tamworth	b	94 49		0
Coonab'rn	b	84 41		0
P. Macq'rie	b	73 54		0
Wilcannia	b	90 64		0
Murr'undi	b	77 52		0
Cassl'is..	b	81 48		0
Mus'br'ok	b	83 48		0
Dubbo...	b	82 58		0
Menindie	b	95 69		0
Mudgee..	b	87 53		0
Maitland.	b	79 53		0
Hill End.	b	75 ..		0
Newcastle	b	88 53		0
Orange..	b	74 47		0
Bathurst	b	81 45		0
23 74		8		
Forb's	b	82 54		0
Mt Vict'ria	b	82 46		0
Condob'ln	b	82 47		0
Picton..	b	79 44		0
Carcoar..	b	72 55		0
Wentw'th	c	98 74		0
Young...	b	71 53		0
Wollgo'ng	b	72 54		0
Hay....	–	90 61		0
Moss Vale	b	72 47		0
Euston...	c	99 72		0
Goulburn	–	..		.
Wagga...	b	86 54		0
Cape Geo.	b	72 50		0
Queanb'n	b	84 46		0
Deniliq'in	b	88 58		0
Moruya..	b	71 54		0
Kiandra..	b	83 47		0

Alb'ry	b	86 48		0
B'd'lla	b	76 46		0
Cooma	b	82 48		0
Eden	b	70 57		0
Gabo	–	..		..

METEOROLOGICAL REPORTS.—NOVEMBER 30.

Western Australia: Cloudy on S.W. coast, with light S.W. wind; sea moderate. South Australia: Fine, with broken clouds on south coast; sea rough, winds moderate from S.W.; barometers rising. Hot and dusty yesterday in north of colony. Victoria: Cloudy weather still prevails round coast, sea rough, barometers rising slowly, wind fresh from N.W. Low Heads: Gloomy and squally from W. Rain: Melbourne, 0.190; Wilson's, 0.230; Portland, 0.70. New South Wales: Fine clear weather, cloudy on mountains W. of Port Macquarie and on coast S. of Sydney; sea smooth, barometers falling rapidly; winds light and variable. (See map.) Warm inland yesterday. Queensland: Fine, with light S.E. and N.E. winds, sea moderate. 3 p.m. Observations.—Victoria: Melbourne, W.S.W., 13, dull, temperature 69°; Portland, W., 48, squally, sea smooth, temperature 63°; Cape Otway, N.W., 48, squally, sea rough, temperature 63°; Wilson's Promontory, W., 28, squally, sea moderate, temperature 64°. New South Wales: Wentworth, W.S.W., fine, temperature 76°; Goulburn, overcast, temperature 83°; Forbes, calm, cloudy, temperature 92°; Eden, S.E., 28, fine, light sea, temperature 63°; Moruya, S.W., 28, cloudy, sea moderate, temperature 66°; Cape George, N.W., 42, hazy, sea moderate, temperature 68°; Sydney, N.N.W., 28, cloudy, sea smooth, temperature 73°; Newcastle, E.N.E., fine, sea smooth; Port Macquarie, N.E., 12, hazy, sea smooth, temperature 79°; Menindie, S.W., fine, temperature 77°. New Zealand: Fine generally. S.E. gale and rain at Gisborne, with high sea. State of Rivers.—Murrumbidgee: At Wagga, 8 feet 6 inches above summer level; at Hay, 3 feet above summer level. Murray: At Albury, 5 feet 1 inch above summer level; at Euston, 9 feet 8 inches above summer level. Darling: At Wentworth, 8 feet 8 inches above summer level; at Pooncarie, summer level; at Menindie, 8 feet 3 inches above summer level; at Wilcannia, 6 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 29 1888, with NOTES to 3 P.M.

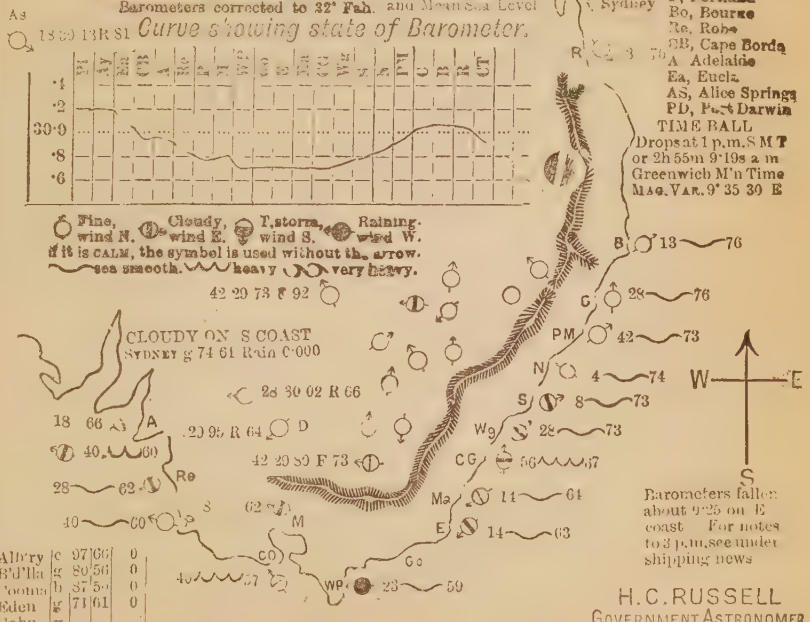
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years .... 51·461
Average for 23 years from Jan. 1st to October 31 ..45·525
Total Rainfall from Jan. 1st to November 29 39 1st.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations		W.	M.	A.	R. in.
Casino..	b	86	52	0	
Tenterfield	b	90	71	0	
Moree....	b	90	49	0	
Grafton..	b	65		0	
Gl'n Inn's	b	90	48	0	
Inverell..	b	82	53	0	
Bourke ..	b	98	80	0	
Narrabri	b	91	62	0	
Arandale	b	83	..	0	
Bendem'r	b	82	49	0	
Gunned'h	–			.	
Coonamble	b	96	66	0	
Tamworth	b	100	50	0	
Coonab'rn	g	92	53	0	
P.Macqrie	b	76	58	0	
Wilcannia	g	100	71	0	
Murr'undi	b	85	60	0	
Cassilis..	b	90	56	0	
Mus'br'ok	b	91	55	0	
Dubbo...	c	90	71	0	
Menindie	b	103	64	0	
Mudgee..	g	91	52	0	
Maitland.	c	79	59	0	
Hill End.	b	75		0	
Newcastle	b	77	61	0	
Orange..	b	83	52	0	
Bathurst	b	89	56	0	
Forb's	b	93	68	0	
Mt Vict'ria	g	91	63	0	
Condob'lin	b	87	68	0	
Picton..	b	84	54	0	
Carcoar..	b	89	61	0	
Wentw'th	b	98	54	0	
Young...	b	85	64	0	
Wollgo'ng	b	74	61	0	
Hay....	b	100	63	0	
Moss Vale	b	82	59	0	
Euston...	g	98	44	0	
Goulburn	b	93	62	0	
Wagga...	b	95	70	0	
Cape Geo.	b	73	60	0	
Queanb'n	b	90	59	0	
Deniliq'in	b	97	78	0	
Moruya..	g	72	61	0	
Kiandra..	g	95	57	0	

Albury	c	97	66	0
B'd'lla	g	80	56	0
Cooma	b	87	50	0
Eden	g	71	61	0
Gabo	–	..	..	..



H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—NOVEMBER 30.

estern Australia: Gloomy weather on S.W. coast, sea mode-
South Australia reports cloudy weather, barometers rising
ily, winds cool from S., sea smooth, no rain; fine weather
erland telegraph line. Victoria: Weather still cloudy, with
S.W. winds and rapidly rising barometers, sea moderate;
Melbourne 0·040, Cape Otway 0·100, Wilson's Promontory
Portland 0·140. Tasmania: Low Heads, fine fresh W.
New South Wales: Fine clear weather, smooth sea, light
winds, and calm and rising barometers on coast; fine and
inland; showery at Moruya. Queensland: Fine and clear
N.E. winds. 3 p.m. Observations.—Victoria: Melbourne, S.,
ne, temperature 62°; Portland, S.W., 34, fine, sea smooth,
erature 62°; Cape Otway, W., 13, fine, sea moderate, tempera-
8°; Wilson's Promontory, W., 34, fine, sea rather rough,
erature 63°. New South Wales: Albury, S.W. strong, fine,
erature 72°; Goulburn, W., fine, temperature 72°; Forbes,
fine, temperature 86°; Eden, S.W., 28, fine, sea smooth,
rature 68°; Moruya, E., 14, showery, sea moderate, tem-
ure 64°; Cape George, S.S.E., 28, fine, sea smooth, tempera-
6°; Sydney, S.S.E, 28, fine, sea smooth, temperature 67°;
astle, S.E., fine, sea smooth; Port Macquarie, S., 14, fine,
nooth, temperature 79°. New Zealand: Fine generally, with
westerly winds. State of Rivers.—Murrumbidgee: At
a, 6 feet above summer level; at Balranald, 5 feet 5 inches
summer level. Murray: At Albury, 4 feet 9 inches above
er level; at Euston, 8 feet above summer level. Darling:
ntworth, 8 feet 6 inches above summer level; at Poon-
summer level; at Menindie, 8 feet 5 inches above summer
at Wilcannia, 6 feet above summer level.

Report for the Map Day

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., NOV. 30 1881, with NOTES to 3 P.M

Sydney Observatory.

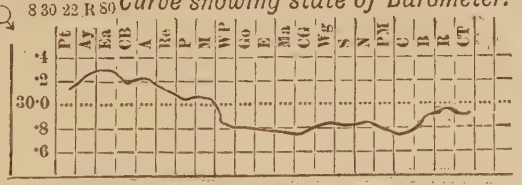
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to November 30 39 379.
Barometers corrected to 32° Fah and Mean Sea Level

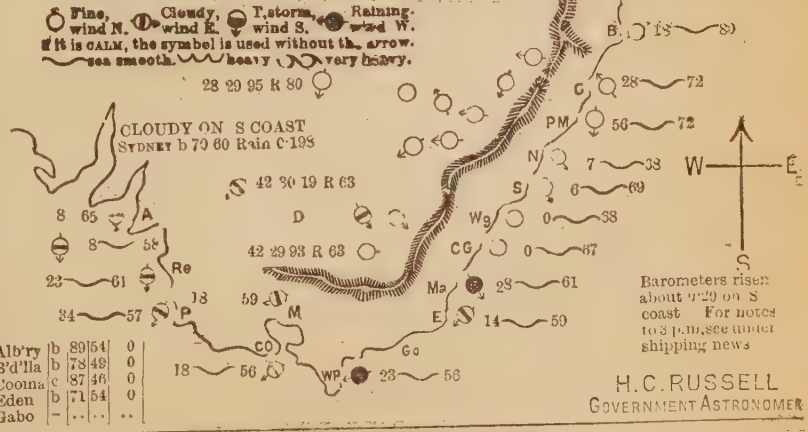
Stations.	W't	M'x	M.t	R'in
Casino..	b	94	65	0
Tenterfild	b	97	70	0
Moree....	-	..	..	0
Grafton..	b	81	66	0
Gl'n Inn's	b	90	60	0
Inverell..	b	85	54	0
Bourke ..	b	97	..	0
Narrabri	b	77	66	0 46
Armidale	b	85	..	0
Bendem'r	b	89	55	0 30
Gunned'h	-	..	..	..
Coonam'le	b	101	64	.
Tamworth	b	103	60	0 12
Coonab'rn	b	94	56	0 06
P.Macqrie	b	78	67	0
Wilcannia	b	83	66	0
Murr'undi	b	87	68	0 03
Cassilis..	b	90	66	0
Mus'br'ok	b	99	69	0
Dubbo...	b	92	67	0
Menindie	b	83	62	0
Mudgee..	b	90	62	0
Maitland.	-	.	...	.
Hill End.	b	81	.	0
Newcastle	b	84	63	0
Orange..	b	86	53	0
Bathurst	b	88	55	0
23 65	E			
Forb's	b	95	60	0
Mt Vict'ria	b	85	55	0
Condob'in	-	.	..	..
Picton..	b	83	51	0
Carcoar..	b	82	54	0
Wentw'th	c	81	57	0
Young...	-	.	.	.
Wollgo'ng	b	86	52	0
Hay....	-			.
Moss Vale	b	85	55	0 01
Euston...	-	.	.	.
Goulburn	b	91	54	0
Wagga...	b	92	59	0
Cape Geo.	b	69	46	0
Queanb'n	b	86	58	0
Deniliq'in	-			..
Moruya..	r	70	66	0
Kiandra..	b	88	46	0

Alb'ry	b	89	54	0
B'd'lla	b	78	49	0
Cooma	c	87	46	0
Eden	b	71	54	0
Gabo	-	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
B, Brisbane
WP, Wilsons Prom
C, Cl'nce R
CO, Cape Otway
PM, Pt. Mac
M, Melbourne
N, Newc'tle
P, Portland
S, Sydney
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 0·20 on S coast For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 1.

Western Australia: Fine and clear, light E. winds, and low barometers. South Australia: Fine weather throughout, barometers falling in west and up on north coast, sea smooth, winds on south coast, light from S.E., inland easterly, north coast N.W. Victoria: Cloudy round coast, sea moderate, wind fresh from W. and S.W., barometers rising slowly. Rain: Melbourne, 9·010; Portland, 0·010; Lake Entrance, 0.030. Low Heads: Cloudy, fresh S.W. wind. New South Wales: Fine and clear, cloudy on coast to south of Sydney; rain at Wollongong, sea smooth, winds light from S.E.; barometers falling rapidly, fine and calm inland. Queensland: Fine and clear, light N.E. and southerly winds, and low barometers, sea moderate. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S.S.W., 8, cloudy, temperature 62·; Portland, W., 34, squally, threatening, moderate sea, temperature 60·; Cape Otway, N.W., 13, cloudy, moderate sea, temperature 65·; Wilson's Promontory, S.W., 28, cloudy, sea smooth, temperature 59·. New South Wales: Wentworth, S., fine, temperature 76·; Albury, W., fine, clear; Goulburn, calm, fine, temperature 72·; Eden, E., 14, fine, sea smooth, temperature 66·; Moruya, N.E., 28, fine, sea smooth, temperature 68·; Cape George, E.N.E., 14, fine, sea smooth, temperature 66·; Sydney, E., 14, fine, sea smooth, temperature 65·; Newcastle, S.E., fine, sea smooth; Port Macquarie, S.E., 14, dull, sea smooth, temperature 73·; Menindie, S.S.W., fine, temperature 76·; New Zealand: Fine generally, with N.E. winds; at Russel, S.W. wind and rain. State of Rivers.—Murrumbidgee: At Wagga, 5 feet 6 inches above summer level; at Hay, 4 feet 6 inches about summel level; at Balranald, 4 feet above summer level. Murray: At Albury, 4 feet 7 inches above summer level; at Euston, 9 feet 2 inches above summer level. Darling: At Wentworth, 8 feet 4 inches above summer level; at Pooncarie, summer level; at Menindie, 8 feet 5 inches above summer level; at Wilcannia, 6 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC. 1 1881, with NOTES to 3 P.M

Sydney Observatory.

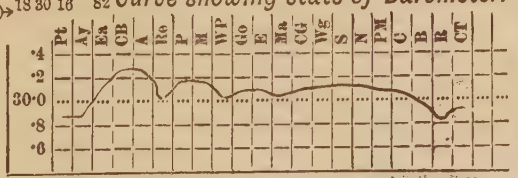
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to December 1 39 449.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W't	W'x	M.	R'in
Casino..	b	102	56	0
Tenterfield	b	89	53	0
Moree....	b	90	67	0
Grafton..	b	.	62	0
Gl'n Inn's	b	89	51	0
Inverell..	b	89	52	0
Bourke ..	b	88	63	0
Narrabri	b	96	59	0
Armidale	b	85	..	0
Bendem'r	b	84	49	0
Ganned'h	b	98	54	0
Coonam'le	b	89	50	0
Tamworth	b	102	55	0
Coonab'rn	b	85	50	0
P.Macqrie	g	79	62	0
Wilcannia	b	94	63	0
Murr'undi	b	85	61	0
Cassilis..	g	84	61	0
Mus'br'ok	g	92	57	0
Dubbo...	b	85	61	0
Menindie	b	79	58	0
Mudgee..	b	87	58	0
Maitland.	c	86	62	0
Hill End.	b	80	.	0
Newcastle	b	83	62	0
Orange..	b	71	46	0
Bathurst	b	74	46	0
Forb's	b	79	58	0
Mt Vict'ria	c	78	49	0 03
Condob'ln	b	72	44	0
Picton..	g	75	57	0
Carcoar..	b	73	45	0
Wentw'th	b	76	57	0
Young...	b	76	52	0
Wollgo'ng	p	78	55	0 10
Hay....	b	77	53	.
Moss Vale	b	73	52	0
Euston...	b	62	55	0
Goulburn	b	72	49	0
Wagga...	b	79	52	0
Cape Geo.	g	72	55	0
Queanb'n	b	75	55	0
Deniliq'in	b	74	50	0
Moruya..	b	72	56	0 12
Kiandra..	b	90	48	0

Alb'ry	b	80	44	0
B'd'lla	b	78	52	0 13
Cooma	b	71	45	0 07
Eden	b	71	54	0
Gabo	-	..	..	..

As 18 30 16 82 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

28 39 99 R 76

CLOUDY ON S COAST
SYDNEY g 74 59 Rain 0·070

28 30 29 R 63

3 66 A 14 30 19– 61 D

8 59

14 30 20 R 62

13 58 Re 8 58 M

16 57 P

CO 13 57

WP 23 60

Go

CG 14 66

Ma 14 64

E 14 65

Wg 14 31

S 5 59

N 5 68

PM 12 67

C 42 74

B 9 83

R 8 80

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Pr'y
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rohe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E.

W — E
S

Barometers risen about 9·30 on E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 2.

Western Australia: Cloudy, with light S.E. and S.W. winds. South Australia: Cloudy near Victorian Border; fine on S. coast and inland, sea smooth, barometer steady, wind light from E. and N.W.; warm in interior; low barometer on N. coast. Victoria: Cloudy and showery, sea smooth, barometers steady, wind moderate from S., low barometers off the coast. Rain: Melbourne, 0·110; Wilson's Promontory, 0.130; Low Heads, Tasmania, fine, with low barometers. New South Wales: Fine and clear throughout colony, smooth sea, falling barometers, and light S.E. winds on coast, calm and warm inland. Queensland: Fine and warm, light E. and S.E. winds, barometers low, especially in extreme north. 3. p.m. Observations.—Victoria: Barometers rising; Melbourne, S.S.W., 15, clear, temperature 63°; Portland, E.S.E., 20, smooth sea, temperature 63°; Cape Otway, S., 10, cloudy, moderate sea, temperature 65°; Wilson's Promontory, W., 18, squally, smooth sea, temperature 60°. New South Wales: Wentworth, S.E., fine, temperature 78°; Albury, S., fine, temperature 75°; Goulburn, N.E., fine, temperature 71°; Eden, S.E., 28, fine, smooth sea, temperature 64°; Moruya, S.E., 28, dull, moderate sea, temperature 99°; Cape George, S.E., 28, fine, smooth sea, temperature 68°; Sydney, S.S.E., 14, fine, smooth sea, temperature 69°; Newcastle, S.E., fine, smooth sea; Port Macquarie, S.E., 14, cloudy, smooth sea, temperature 75°. New Zealand: Barometers falling fast, light rain from N.W. generally, except at Taranaki, where a strong N.W. wind with rough sea is reported. The morning telegrams show a depression about Rockhampton, with S.E. winds prevalent in Queensland. 3 p.m.—S.E. winds are reported along the coast of New South Wales; the gradients are moderate. State of Rivers.—Murrumbidgee at Wagga, 5 feet above summer level; at Hay, 4 feet 11 inches above summer level. Murray: At Albury, 4 feet 5 inches above summer level: at Euston, 9 feet above summer level. Darling: At Wentworth, 8 feet above summer level; at Pooncarie, 5 feet 10 inches above summer level; at Menindie, 8 feet 4 inches above summer level; at Wilannia, 5 feet 6 inches above summer level.

WEATHER MAP.

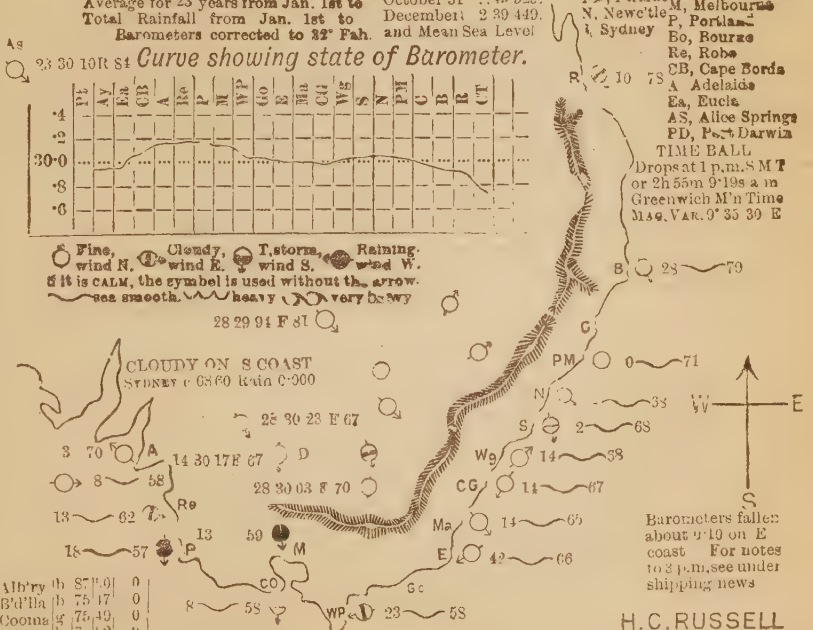
COMPILED from TELEGRAMS for 9 A.M., DEC. 2 1889, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to December 2 39 449.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations					
Tasmo..	b	91	69	0	
Tenterfield	b	82	54	0	
Maitee....	b	93	68	0	
Grafton..	b		.61	0	
Gl'n Inn's	b	89	48	0	
Inverell..	b	87	56	0	
Bourke ..	b	90	64	0	
Narrand	b	90	73	0	
Armidale	b	84	..	0	
Bendem'r	b	80	45	0	
Gunned'h	b	97	56	0	
Cootamdle	b	92	60	0	
Tamworth	b	100	54	0	
Coonab'rn	b	87	48	0	
P.Macquie	b	72	56	0	
Wilcannia	b	90	60	0	
Murr'umdi	b	78	57	0	
Cessn'ia..	b	81	52	0	
Mas'or'ok	g	84	54	0	
Bulloo...	b	84	62	0	
Menin'lie	b	82	61	0	
Hodgee..	b	85	55	0	
Manland.	b	76	58	0	
Hill End.	b	80	..	0	
Newcastle	b	73	61	0	
Orange..	b	76	47	0	
Bathurst	b	80	46	0	
[illegible]		8	74		E
Forb's	b	86	60	0	
Mt Vict'ria	g	77	47	0	01
Condob'lin	b	89	51	0	
Picton..	b	75	57	0	02
Carcoar..	b	75	50	0	
Wentw'th	b	83	53	0	
Young...	b	79	55	0	
Wollgo'ng	b	71	57	0	
Hay....	b	82	55	0	
Moss Vale	b	69	54	0	
Euston...	b	83	53	0	
Goulburn	b	80	50	0	
Wagga...	b	87	58	0	
Cape Geo.	b	71	52	0	
Queanb'n	b	83	52	0	
Deniliq'in	b	81	50	0	
Moruya..	b	71	53	0	
Kiandra..	b	90	46	0	
Alb'ry	b	87	50	0	
B'd'lla	b	75	47	0	
Cooma	g	75	49	0	
Eden	b	75	52	0	
Gabo	—	..	..	..	



Barometers fallen about 0·10 on E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 3.

Victoria: Weather fine, with light broken clouds; barometers very steady, sea smooth. No rain, except 0·010 at Lake entrance. New South Wales: Cloudy, with fresh S. and S.E. winds to N. of Castlereagh and Manning Rivers, but no rain fallen; smooth sea and fresh southerly winds on coast; barometers rising. Light rains measured at Clarence Heads, Moss Vale, and Moruya. Queensland: Cloudy, with strong S. and S.E. winds in south of colony; winds light from same quarter in north; barometers rising, sea moderate from E. No rain. 3 p.m, Observations.—New South Wales: Albury, S., 10, fine, temperature 77°; Goulburn, E., 10, fine, temperature 70°; Eden, N.E., 14, fine, smooth sea, temperature 65°; Moruya, N.E., 14, fine, moderate sea, temperature 66°; Cape George, S.E., 0, fine, smooth sea, temperature 67°; Sydney, S.E., 14, fine, smooth sea, temperature 65°; Newcastle, S.E., fine, smooth sea; Port Macquarie, S., 20, cloudy, smooth sea, temperature 72°; Clarence River, S., cloudy, smooth sea, temperature 71°. New Zealand, cloudy generally, with rain; depression over Hokitika; S.W. wind in south and N.W. in North Island. State of Rivers.—Murrumbidgee: At Wagga, 4 feet 6 above summer level. Murray: At Albury, 3 feet 9 inches above summer level.

WEATHER MAP.

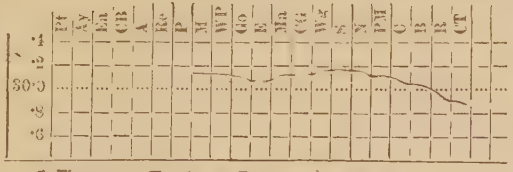
COMPILED from TELEGRAMS for 9 A.M., DEC. 3 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 . 45·5[illegible]
Total Rainfall from Jan. 1st to December 3 [illegible] 1 lb.
Barometers corrected to 32° Fah and Mean Sea Level.

Curve showing state of Barometer.



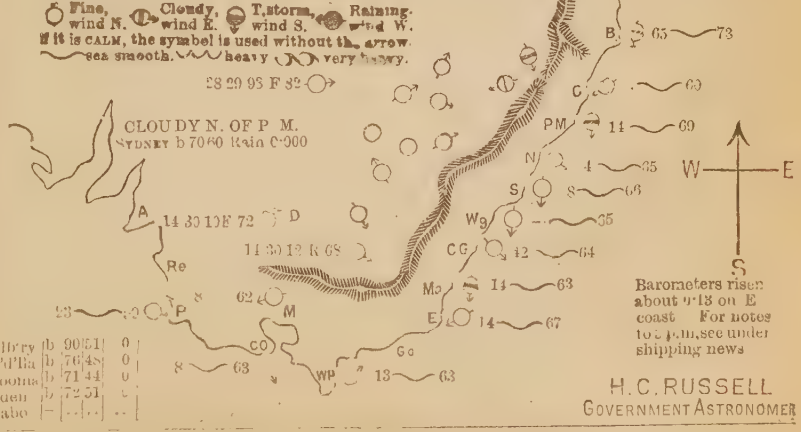
Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

Stations.		Barom.	Mo'n'in
Casino..	c	90·61	0
Tenterfild	g	85 57	0
Moree....	b	94 69	0
Grafton..	c	[illegible] 61	0
Gl'n Inn's	g	89 54	0
Inverell..	–	...	...
Bourke ..	b	91 69	0
Narrabri	b	101 59	0
Arandale	g	84 [illegible]	[illegible]
Bendem'r	b	84 52	0
Canned'h	–	...	...
Coonam'le	b	95 64	0
Tamworth	b	99 55	0
Coonab'rn	b	91 56	0
P.Macqrie	c	74 59	0
Wilcannia	–	...	...
Murr'undi	b	79 57	0
Cassilis..	g	85 53	0
Mas'br'ok	g	84 56	0
Dubbo...	b	85 62	0
Menindie	–	...	...
Mudgee..	b	89 58	0
Maitland.	g	76 60	0
Hill End.	b	80 [illegible]	[illegible]
Newcastle	b	72 60	0
Orange..	b	80 50	0
Bathu.st	b	83 53	0
	E		
Forb's	b	89 61	0
Mt Vict'ria	g	66 45	0 07
Condob'lin	–	...	...
Picton..	g	72 54	0
Carcoar...	b	77 53	0
Wentw'th	–	...	...
Young...	b	83 50	[illegible]
Wond'o'ng	b	77.56	0
Hay....	b	86 61	0
Moss Vale	b	66 50	0 72
Euston...	–		..
Goulburn	b	77 48	0
Wagga ..	b	84 [illegible]	[illegible]
Cape Geo.	b	6[illegible] 53	0
Queanb'n	b	85 53	0
Deniliq'in	b	85 53	0
Moruya..	2	62 55	0 04
Kiandra..	b	85 38	0

Alb'ry	b	90 61	0
Bd'Pla	b	76 48	0
Cooma	b	71 44	0
Eden	b	72 51	[illegible]
Gabo	–	..	..

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P'nt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E



Barometers risen about 0·13 on E coast For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 5.

Western Australia: Cloudy, with light S.W. wind, sea moderate; rain at Perth, 0.030. South Australia: Cloudy weather with moderate southerly winds all along southern coast, sea smooth, barometers falling; no rain; yesterday cloudy, and very oppressive. Victoria: Cloudy, wind on coast fresh and warm from N.W. and N., sea smooth, barometers falling, weather very hot and oppressive; no rain. Low Heads (Tasmania): Fine, fresh N.E. breeze. New South Wales: Fine and clear throughout colony; sea smooth, barometers falling; winds light and pleasant from on coast. Inland on and near the Darling and Murrumbidgee strong hot northerly winds are reported, and barometers falling. Queensland: Raining in N., at Cooktown, with fresh S.E. breeze; fine in south of colony, with strong S.E. winds. 3 p.m. Observations.—Victoria: Barometers rising, wind changing to S.W.; Melbourne, N.N.E., 18, thunderstorm, temperature 72°; Portland, S.W., 34, hot, sultry, sea smooth, temperature 67°; Cape Otway, N.W., 40, hot, sultry, sea smooth; Wilson's Promontory, N., 10, squally, hot, cloudy, sea smooth, temperature 96°, upper cloudy from W. New South Wales: Wentworth, N.W., strong, cloudy, temperature 103°; Albury, N.W., 28, cloudy, hot, temperature 85°; Goulburn, N.W., fine, temperature 82°; Eden, N., 13, fine, sea light, temperature 95°; Moruya, N.E., 28, fine, sea rough, temperature 72°; Cape George, N.E., 42, fine, sea moderate, temperature 71°; Sydney, E.N.E., 8, fine, sea smooth, temperature 75°; Newcastle, N.E., fine, sea smooth; Port Macquarie, N.E., 42, fine, sea smooth, temperature 76°; Menindie, W.N.W., strong, cloudy, temperature 94°. New Zealand: Sunday, north-west winds; Wellington, S.E., and rain 1·13; to-day strong S.E. winds generally, with increasing sea. State of Rivers.—Murrumbidgee: At Wagga, 4 feet above summer level; at Hay, 6 feet 11 inches about summer level. Murray: At Albury, 3 feet above summer level; at Euston, 8 feet 3 inches above summer level. Darling: At Wentworth, 7 feet 4 inches above summer level; at Pooncarie, 7 feet above summer level; at Menindie, 7 feet 6 inches above summer level; at Wilcannia, 4 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC. 5 1881, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s. E.*

Average Annual Rainfall for 22 years ..... 51·461.
Average for 23 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to December 5 39 451.
Barometers corrected to 32° Fah. and Mean Sea Level

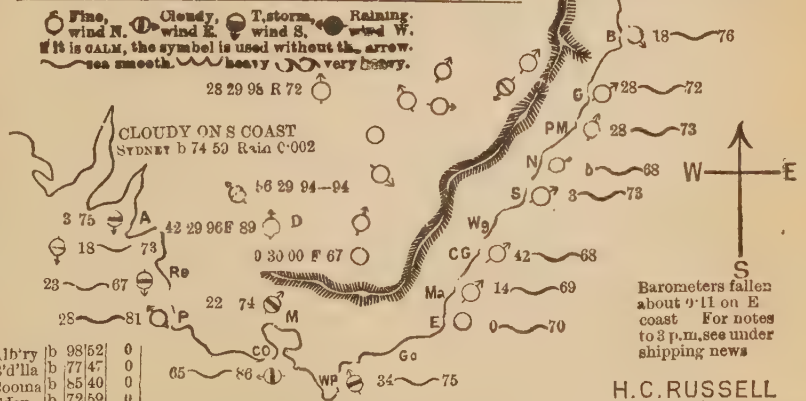
Stations	W'th	M'x	M.	R'in
Casino..	b	81	73	0
Tenterfild	b	83	54	0
Moree....	b	91	63	0
Grafton..	b	..	65	0
Gl'n Inn's	o	90	50	0
Inverell..	b	83	50	0
Bourke ..	b	95	74	0
Narrabri	b	100	56	0
Armidale	b	77		0
Bendem'r	b	82	45	0
Ganned'h	–	..		.
Coonam'le	b	93	61	0
Tamworth	b	97	51	0
Coonab'rn	b	89	48	0
P.Macqrie	b	73	59	0
Wilcannia	b	94	72	0
Murr'undi	b	80	53	0
Cassilis..	b	85	50	0
Mus'br'ok	–	..	..	–
Dubbo...	b	86	65	0
Menindie	b	100	70	0
Mudgee..	b	89	57	0
Maitland.	b	79	53	0
Hill End.	b	80		0
Newcastle	b	84	57	0
Orange..	o	79	51	0
Bathurst	b	86	44	0·7
8 70		6		
Forb's	b	99	63	0
Mt Vict'ria	b	85	54	0
Condob'ln	b	90	57	0
Picton..	b	89	49	0
Carcoar..	b	75	55	0
Wentw'th	g	105	78	0
Young...	b	84	60	0
Wollgo'ng	–	..	.	.
Hay....	b	100	67	0
Moss Vale	b	77	52	0
Euston...	c	108	76	0
Goulburn	b	89	46	0
Wagga...	b	94	58	0
Cape Geo.	b	71	55	0
Queanb'n	b	93	54	0
Deniliq'in	b	99	58	0
Moruya..	b	70	55	0
Kiandra..	b	94	58	0

Alb'ry	b	98	52	0
B'd'lla	b	77	47	0
Cooma	b	85	40	0
Eden	b	72	59	0
Gabo	–	..	..	..

As

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.



Barometers fallen about 9·11 on E coast For notes to 3 p.m. see under shipping news

WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Prom
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

R, Rockht'n
B, Brisbane
C, Cl'nce R.
PM, Pt. Mac
N, Newcastle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 6.

Western Australia: Perth fine, with light S.E. wind, sea smooth; Albany dull, with light N.W. wind, sea smooth. South Australia: Fine weather round see coast, sea smooth, winds light and variable, barometers steady, no rain reported; fine and warm inland, with light westerly and S.E. winds. Victoria: Fine, light W. and S.W. winds and rising barometers on coast; heavy thunderstorm passed over colony in afternoon of 5th; rain, Wilson's 0.130, Echuca 0.170. Low Heads (Tasmania), fine wind, fresh from W.; barometer 29,820. New South Wales: Fine warm weather throughout the colony, hot N.W. winds at Sydney (changed at 12.30 p.m. to cool southerly), smooth sea, steady barometers, and light variable westerly winds on coast; slight rain in Wentworth districts yesterday (see map). Queensland: Fine in south of colony, with light E winds and moderate, showery at Cooktown, wind fresh from S.E. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 18, fine, temperature 65°; Cape Otway, W., 8, fine, sea slight, temperature 63°; Portland, S., 18, hot and fine, sea smooth, temperature 66°; Wilson's Promontory, W., 13, fine, sea smooth, temperature 66°. New South Wales: Wentworth, S., fine, temperature 85°; Albury, W., cloudy, temperature 86°; Moruya, S.E., 14, dull, sea moderate, temperature 66°; Sydney, S., 20, fine, sea smooth, temperature 69°; Port Macquarie, N.E., 42, fine, sea smooth, temperature 77°; Menindie, N., 14, fine, temperature 92°; Goulburn, S.W., dull, temperature 84°; Eden S.W., 28, fine, sea slight, temperature 71°; Cape George, S.S.E., 42, fine, sea moderate, temperature 69°, Newcastle, E., fine, sea smooth; Clarence River, N.E., fine, sea smooth, temperature 77°. New Zealand: Generally rain from S.W., amount 0·78 inches; thunderstorms during 24 hours; sharp earthquake to south yesterday. State of Rivers.—Murrumbidgee: At Wagga, 4 feet above summer level; at Hay, 6 feet 11 inches above summer level. Murray: At Albury, 3 feet above summer level; at Euston, 8 feet 2 inches above summer level. Darling: At Wentworth, 7 feet 6 inches above summer level; at Pooncarie, 7 feet 10 inches above summer level; at Menindie, 7 feet 4 inches above summer level; at Wilcannia, 4 feet 3 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC. 6 1888, with NOTES to 8 P.M.

Sydney Observatory.

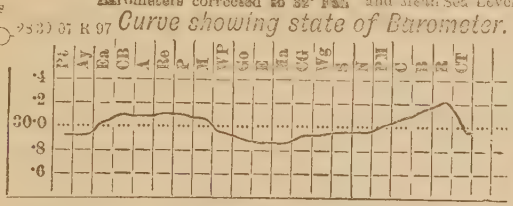
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 ..... 45·525
Total Rainfall from Jan. 1st to December 6 39·42 I.
Barometers corrected to 32° Fah and Mean Sea Level

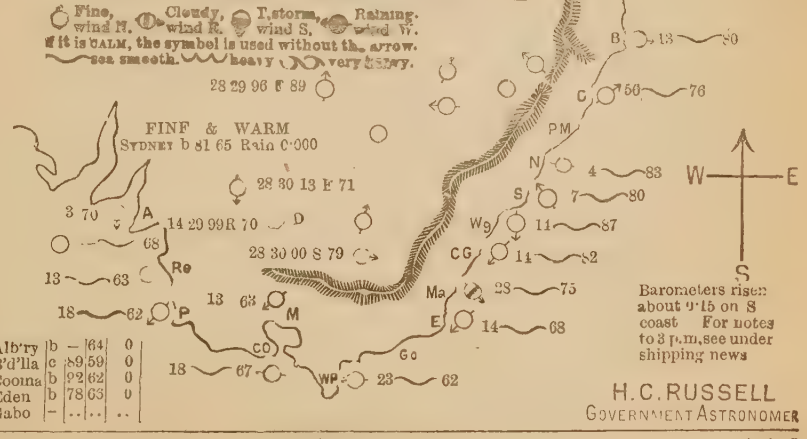
Stations.	W't	M'x	M.	R'in
Casino..	b.	89	49	0
Tenterfild	b	91	51	0
Moree....	b	84	70	0
Grafton..	b	..	64	0
Gl'n Inn's	o	90	48	0
Inverell..	b	89	52	0
Bourke ..	b	98	74	0
Narrabri	b	101	71	0
Armidale	b	84		0
Bendem'r	b	87	47	0
Gunned'h	–	..	..	.
Coonam'le	b	98	63	0
Tamworth	b	102	53	0
Coonab'rn	b	92	53	0
P.Macqrie	–	..	.	.
Wilcannia	b	104	70	0 31
Murr'undi	b	87	65	0
Cassilis..	b	94	60	0
Mus'br'ok	b	99	61	0
Dubbo...	b	93	73	0
Menindie	b	106	72	0
Mudgee..	b	94	52	0
Maitland.	b	87	64	0
Hill End.	b	84		0
Newcastle	b	85	64	0
Orange..	o	85	61	0
Bathurst	b	92	63	0
13 69 E. Forb's	b	99	73	0
Mt Vict'ria	b	96	65	0
Condob'ln	b	93	77	0
Picton..	b	89	58	0
Carcoar..	b	83	70	0
Wentw'th	b	107	60	0 05
Young...	b	91	70	0
Wollgo'ng	b	89	63	0
Hay....	b	105	74	0
Moss Vale	b	88	62	0
Euston...	b	109	62	0
Goulburn	g	25	67	0
Wagga...	b	103	72	0
Cape Geo.	b	90	61	0
Queanb'n	b	95	65	0
Deniliq'in	b	104	63	0 22
Moruya..	g	75	63	0
Kiandra..	b	95	95	0

Alb'ry	b	–	64	0
B'd'lla	c	89	59	0
Cooma	b	92	62	0
Eden	b	78	63	0
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the ARROW.
sea smooth. heavy very heavy.



WG, Wollongong
CG, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons P't
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Rose
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin
R, Rockh't'n
B, Brisbane
C, Clonce R.
PM, Pt. Mac
N, New'ttle
S, Sydney

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen about 9·15 on S coast For notes to 8 p.m. see under shipping news

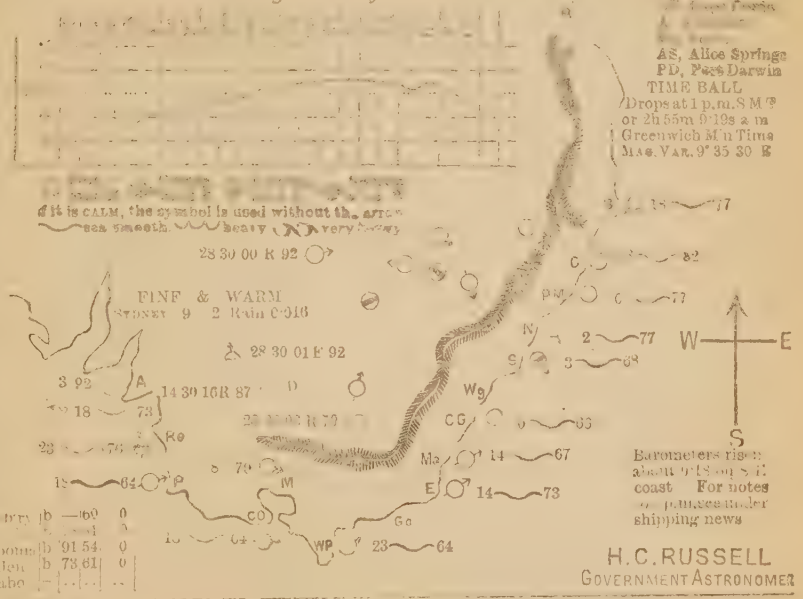
H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 7.

South Australia: Weather fine and warm, cloudy on coast at Robe, sea smooth, barometers falling, wind light from north, no rain, fine, and very warm inland. Victoria: Fine weather round coast, with fresh easterly winds, smooth sea, and falling barometers, no rain. Low Heads, Tasmania: Fine, with fresh N.N.E. breeze. New South Wales: Fine throughout colony; smooth sea on coast; barometers rising to S. and falling north of Port Macquarie, winds light from N.E. and S.E., and calm; inland weather very warm and hazy, with calms. Queensland: Fine, with fresh S.W. and S.E. winds, sea moderate. 3 p m. Observations.—Victoria: Barometers falling; Melbourne, N.E., 13, fine, temperature 92°; Portland, N., 31, hot, sea smooth, temperature 83°: Cape Otway, E., 20, hazy, sea moderate, temperature 70°; Wilson's Promontory, N.E., 18, hazy, sea smooth, temperature 68°. New South Wales: Wentworth, N.W., dull, temperature 99°; Goulburn, S.W., cloudy, temperature 83°; Eden, N.E., 14, fine, sea light, temperature 69°; Moruya, N.E., 42, cloudy, sea rough, temperature 70°; Cape George, N.E., 28, fine, sea smooth, temperature 67°; Sydney, E.N.E., 8, fine, sea smooth, temperature 70°; Newcastle, S.E., dull, sea smooth; Port Macquarie, S.E., 14, dull, sea smooth, temperature 79°; Menindie, N.N.E., hot, temperature 96° New Zealand: Fine, with light S.W. winds. State of Rivers.—Murrumbidgee: At Wagga, 4 feet above summer level; at Hay, 5 feet above summer level: at Balranald, 6 feet 3 inches above summer level. Murray: At Albury, 2 feet 10 inches above summer level; at Euston, 7 feet 10 inches above summer level. Darling: At Wentworth, 7 feet 8 inches above summer level; at Pooncarie, 8 feet 2 inches above summer level; at Menindie, 7 feet 1 inch above summer level; at Wilcannia, 4 feet 3 inches above summer level.

WEATHER MAP.

Casino..	b	[illegible]		
Tenterfield	b	[illegible]		
Moree....	b	[illegible]		
Grafton..	b	[illegible]		
Gl'n Ian's	o	[illegible]		
Inverell..	b	28·54		
Bourke ..	b	29·73		
Narrandera	b	101·17	0	
Armidale	b	[illegible]		
Lambing'n	b	[illegible]		
Gunnedah	b	[illegible]		
Coonabarabran	[illegible]	[illegible]		
Tamworth	[illegible]	[illegible]		
Coonamble	b	[illegible]		
Parkes	o	[illegible]		
Wilcannia	b	[illegible]	0	
Burr'nd	b	[illegible]		
Cassilis..	g	[illegible]		
Mus'br'ok	b	[illegible]		
Dubbo...	g	[illegible]		
Merimbula	b	[illegible]		
Mudgee	g	[illegible]		
Maitland	[illegible]	[illegible]		
Kid'nd	c	[illegible]		
Newcastle	b	[illegible]		
Grafton	[illegible]	[illegible]		
Bathurst	[illegible]	[illegible]		
[illegible]	c	101·70	0	15
[illegible]	b	96·52	0	45
Cooma	[illegible]	[illegible]		
Pa[illegible]	[illegible]	[illegible]		
Cr[illegible]	[illegible]	[illegible]		
Wagga	c	[illegible]		
Tou[illegible]	b	[illegible]		
Wo[illegible]	[illegible]	[illegible]		
Hay...	c	95·[illegible]	0	
Moss Vale	b	[illegible]	0	15
Euston...	[illegible]	[illegible]		
Goulburn	b	[illegible]		
Wagga...	b	[illegible]		
Ca[illegible]	b	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	0	Coonabarabran
Mo[illegible]	b	71·95	0	Walden
Pa[illegible]	[illegible]	[illegible]	0	Cobar



METEOROLOGICAL REPORTS.—DECEMBER 8.

South Australia: Cloudy in east of colony, raining at Macdonnell Bay, rough sea and rising barometers on coast, fine inland, terrific storms all night at Alice Springs. Victoria: Weather cloudy and raining, smooth sea, strong westerly winds and steady barometers on coast, falling to east and rising to west, raining in north of Tasmania with light N.N.E. wind. New South Wales: Fine at majority of stations, cloudy to the south-west where rain fell yesterday; for amounts see Weather Map; smooth sea, light north-east winds and falling barometers on coast. Queensland: Fine and clear, with light south-east and north-east winds. 3 p.m. Observations.—Victoria: Barometers rising; Melbourne, S., 14, fine, temperature 66°; Portland, W., 56, strong gale, fine smooth sea, temperature 65°; Cape Otway, W.N.W., 40, cloudy, moderate sea, temperature 63°; Wilson's Promontory, W., 23, fine, moderate sea, temperature 62°. New South Wales.—Wentworth, N.W., fine, temperature 77°; Deniliquin, S.W., fine, temperature 82°; Albury, W., showery, temperature 76°; Goulburn, W., dull, temperature 60°; Forbes, calm, dull, temperature 98°; Eden, N.E., 14, thick fog, light easterly sea, temperature 65°; Moruya, N.E., 14, dull, moderate sea, temperature 69°; Cape George, N.E., cloudy, moderate sea, temperature 69°; Sydney, E.N.E., 12, cloudy, moderate sea, temperature 77°; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., 14, fine, smooth sea, temperature 77°; Menindie, S.W., fine, temperature 84°. New Zealand, fine generally, with light southerly winds, high sea at Gisborne. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 6 feet 6 inches above summer level: at Balranald, 6 feet 8 inches above summer level. Murray: At Albury, 3 feet above summer level; at Euston, 7 feet 8 inches above summer level. Darling: At Wentworth, 7 feet 10 inches above summer level; at Pooncarie, 8 feet 5 inches above summer level; at Menindie, 6 feet 8 inch above summer level; at Wilcannia, 4 feet 3 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC. 8 [illegible] 8 P.M.

Sydney Observatory.

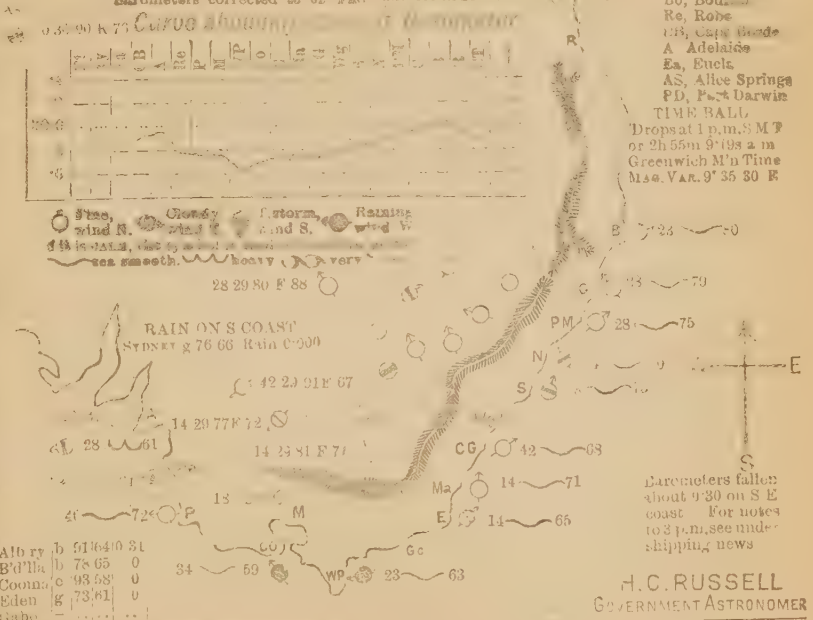
Lat. 33° 51′ 41″ *S.* ; *Long.* 10*h.* 4*m.* 50·31*s* *E*

Average Annual Rainfall for 22 years ... 51·461
Average for 23 years from Jan. 1st to October 31 ... 45·525.
Total Rainfall from Jan. 1st to December 8 39·467.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.				
Casino..	b	97	52	0
Tenterfild	b	94	53	0
Moree....	b	99	73	0
Grafton..	b	[illegible]	64	0
Gl'n Inn's	b	91	52	0
Inverell..	–			
Bourke ..	b	104	83	0
Narrabri	b	101	[illegible]	0
Armidale	b	71	[illegible]	0
Bendem'r	b	84	49	0
Gunned'h	c	105	70	0
Coonam'le	c	105	71	0
Tamworth	b	105	57	0
Coonab'rn	b	93	56	0
P.Macqrie	b	79	63	0
Wilcannia	g	99	75	0
Murr'undi	b	85	60	0
Cassilis..	b	95	69	0
Mus'br'ok	–			
Dubbo...	g	95	74	0
Menindie	g	101	73	0 06
Mudgee..	b	93	62	0
Maitland.	b	87	65	0
Hill End.	c	85	[illegible]	0 27
Newcastle	g	89	69	0
Orange..	b	83	60	0
Bathurst	c	91	59	[illegible]
Forb's	b	94	76	[illegible]
Mt.Vict'ria	c	85	58	[illegible]
Condob'lin	b	88	71	0
Picton..	g	89	63	[illegible]
Carcoar..	b	84	65	0
Wentw'th	b	107	63	0 51
Young...	g	92	71	[illegible]
Wollgo'ng	–			
Hay...	g	101	69	[illegible]
Moss Vale	b	81	61	[illegible]
Euston...	g	[illegible]	64	
Goulburn	b	94	54	2
Wagga...	g	92	[illegible]	[illegible]
Cape Geo..	b	7.	66	[illegible]
Queanb'n	b	93	65	0
Deniliq'in	g	101	68	0 32
Moruya..	b	72	61	0 11
Kiandra..	p	52	37	0 20
Albury	b	91	64	0 31
B'd'lla	b	78	65	0
Cooma	c	93	58	0
Eden	g	73	61	0
Gabo	–			

WG Wollongong
CG, Cape George
Ma, Mernia
E, Eden
Go, Gabo
WP, Wilsons Pt
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M T
or 2h 55m 9·198 s m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E



H. C. RUSSELL
GOVERNMENT ASTRONOMER

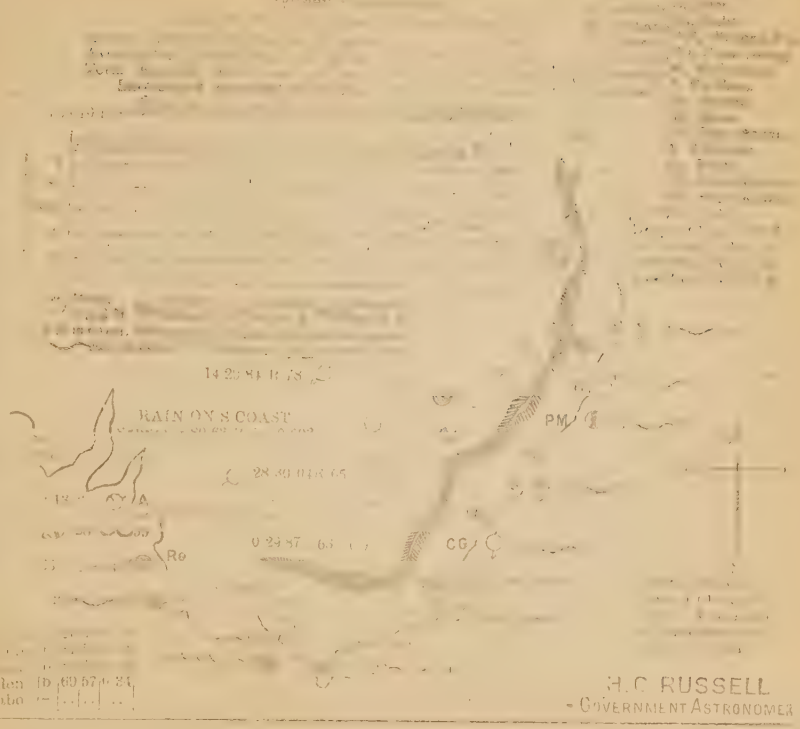
METEOROLOGICAL REPORTS.—DECEMBER 9.

South Australia: Cloudy, with fresh S.W. winds, steady barometers and rough sea; fine on overland telegraph line. Victoria: Cloudy, and raining round coast, sea moderate, barometers steady and falling slightly, wind strong from west; rain, Melbourne 0.420, Wilson's Promontory 0.720. Squally from west in Tasmania. New South Wales: Cloudy in northern half of colony, with falling barometers; fine generally to S. and S.W.; barometers rising; smooth sea on coast, with light N.E. winds and calms; light rains fell yesterday on the coast and inland to S.W. Queensland: Brisbane fine, with light westerly wind. 3 p.m. Obeservations.—Victoria: Barometer steady; Melbourne, S.W., 18, fine, squally, temperature 62°; Portland, S.W., 20, squally, upper clouds from N.W., smooth sea, temperature 57°; Cape Otway, W., 30, passing showers, high sea, temperature 61°; Wilson's Promontory, W., 23, squally, moderate sea, temperature 61°. New South Wales: Wentworth, S.W., cloudy, cool, temperature 72°; Albury, W., 10, fine, temperature 72°; Goulburn, W., 10, fine, temperature 78°; Eden, N.E., 14, fine, light easterly sea, temperature 66°; Moruya, N.E., 20, hazy, moderate sea, temperature 64°; Cape George, S.E., 14, fine, smooth sea, temperature 68°; Sydney, E.N.E., 6, cloudy, smooth sea, temperature 66°; Newcastle, S.E., raining, smooth sea; Menindie, S.W., fine, temperature 77°. New Zealand: Fine generally, with light northerly winds and gloomy weather; heavy sea at Gisborne. State of Rivers.—Murrumbidgee: At Wagga, 3 feet 6 inches above summer level; at Hay, 4 feet 6 inches above summer level; at Balranald, 6 feet 10 inches above summer level. Murray: At Albury, 2 feet 11 inches above summer level; at Euston, 7 feet 6 inches above summer level. Darling: At Wentworth, 8 feet above summer level; at Pooncarie, 8 feet 6 inches above summer level; at Menindie, 6 feet 5 inches above summer level; at Wilcannia, 4 feet 3 inches above summer level.

WEATHER MAP

COMPILED from Telegrams for 9 a.m. [illegible] 1892, with Notes to 9 P.M. Ms. Meruya

Stations			
Casino..	b	99 65	0
Tenterfild	b	98 55	0
Moree....	–		
Grafton..	b		
Cl'n Ind.	–		
Inverell			
Bogabri..			
Narrow.			
Armidale	b		
Bendemeer			
Gunnedah			
Coonamble			
Tamworth	–		
Coonabarra	–		
P.Macq'e			
Wilcannia			
Hut'ns'n			
Cassilis..			
Mus'br'ok	–		
Dubbo...			
Menindie			
Mudgee..	b	89 63	0
Maitland.	c	98 71	0 14
Hill End.	b	80	
Newcastle	–		
Orange..	b	87 57	0 04
Bathurst	b	90 60	0
Forb's	b	98 70	0
Mt Vict'ria		85	
Condob'lin	g	77 57	
Picton..	g	91 48	0
Carcoar..	g	88 02	0
Wentw'th	b	75	
Young...	b		
Woll'g'ng	–		
Hay....	b	81 53	0
Moss Vale	b		
Euston...	b	7	
Goulburn	b	82	
Wagga...	b	83	
Cape Geo.	b	87 70	
Queanb'n		87	
Deniliq'n		82 59	
Meruya...	g	80 67	0 04
Kiandra..		95 50	0



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 12.

Western Australia: Perth, sultry and overcast; Albany, fine and clear, wind light from N., sea smooth. South Australia: Cloudy on coast, but fine and hot inland, sea smooth, barometers falling slowly, winds light and variable; rain, Daly Waters, 0·200. Victoria: Cloudy weather round the coast, sea rough, barometers rising slowly, winds moderate from W. and S.W.; rain, at Melbourne, 0·020; Wilson's Promontory, 0·350; Portland, 0·060; gloomy at Low Heads (Tasmania), wind fresh from W. New South Wales: Fine clear weather reported from all inland stations; cloudy, with light drizzling rain on coast between Port Macquarie and Cape St. George, sea smooth, winds fresh from S. and S.E., barometers rising. Queensland: Fine, with N.W. winds in north of colony; cloudy, with S. winds in south. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S., 6, fine, clear, temperature 63°; Cape Otway, W., 6, misty, rough sea, temperature 62°; Portland, S., 18, cloudy, sea smooth, temperature 63.; Wilson's Promontory, W., 23, cloudy, sea moderate, temperature 57°. New South Wales: Albury, S. 10, fine, temperature 71°; Forbes, calm, fine, temperature 80°; Moruya, N.E., 14, fine, sea smooth, temperature 67°; Sydney, S.E., 8, cloudy, sea smooth, temperature 64°; Port Macquarie, S.E., 20, fine, sea smooth, temperature 77°; Goulburn, E., fine, temperature 74°; Eden, S., 14, fine, sea smooth, temperature 73°; Cape George, S.E., 20, fine, little sea, temperature 64°; Newcastle, S.E., cloudy, sea smooth; Clarence River, S., fine, sea smooth, temperature 78°. New Zealand: Fine generally, with strong N.W. winds, with high sea, at Hokitika. State of Rivers.—Murrumbidgee: At Wagga, 2 feet above summer level. Murray: At Albury, 3 feet 5 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 12 [illegible] with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10h. 4m. [illegible] *E.*

Average Annual Rainfall for 22 years [illegible] 51·461

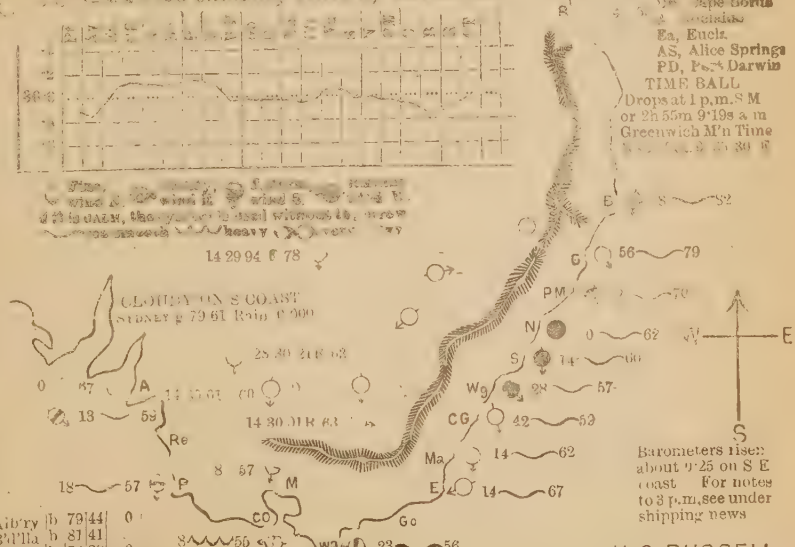
Average for 22 years from Jan. 1st to [illegible] October 31 [illegible] 5·525

Total Rainfall from Jan. 1st to [illegible] December 12 39·563.

Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.

Stations.	W'th	W'S	M'n	R'in.	
Cashmere	b	99 58		0	
Tenterfield	b	86 46		0	
Moree....	b	90 61		0	
Grafton...	b	..63		0	
Gl'n Inn's	b	81 44		0	
Inverell..	b	88 51		0	
Bourke...	b	93 52		0	
Narrabri	b	96 ..		0	As
Armidale	b	82 ..		0	
[illegible]	b	80 45		0	
Grenfell	[illegible]	..			
[illegible]	[illegible]	..			
Tamworth	b	92 42		0	
Gosford	b	83 48		0	
P. Macquarie	c	75 65		0	
Wellington	b	88 60		0	
Mudgee....	b	80 54		0	
Cootamundra	b	82 50		0	
Hay.....	b	86 53		0	
Bathurst..	b	92 57		0	
Maitland	b	80 57		0	
Singleton	b	80 37		0	
Muswellbrook	g	83 56		0	
Hill End..	b	82 ..		0	
Newcastle	r	82 61	0	07	
Orange..	b	72 46		0	
Bathurst	b	77 40		0	
[illegible]					
Forb's	b	89 58		0	
Mt Vict'ria	b	79 45		0	
Condob'lin	b	[illegible]		0	
Picton..	g	77 52		0	
Carcoar..	b	72 44		0	
[illegible]	b	78 53		0	
Young...	b	74 49		0	
Wongong	d	77 55	0	40	
Hay...	b	80 76		0	
Moss Vale	g	75 52		0	
Euston...	b	80 49		0	
Goulburn	b	76 49		0	
Wagga..	b	81 50		0	
Cape G'eo.	b	70 47	0	14	
Queanb'n	b	71 52		0	
Deniliq'in	b	67 50		0	
Menrya..	b	75 55	0	04	
Kiandra..	c	86 43		0	
Albury	b	79 44		0	
B'd'lla	b	81 41			
Cooma	b	74 38		0	
Eden	b	71 54	0	06	
Gabo	-	..	..	..	



H. C. RUSSELL
GOVERNMENT ASTRONOMER.

METEOROLOGICAL REPORTS.—DECEMBER 13.

South Australia: Cloudy on coast, winds southerly, barometers falling, fine and hot inland, with light N. and N.E. winds. Victoria: Cloudy weather round coast, winds moderate from west, sea light, barometers falling slowly, showery at Wilson's Promontory. Tasmania: Fine, fresh W. wind. New South Wales: Cloudy on coast north of Sydney, showery at Port Macquarie. (See map.) Fine inland, smooth sea, falling barometers, and light S.E. winds to north and N.E. to south prevail on coast. Queensland: Cloudy in south of colony, wind N.E., fine up north, winds E., temperature 87°. Victoria: Barometers falling slowly. 3 p.m. Observations.—Melbourne, S., 13, cloudy, temperature 63°; Portland, S.S.W., 28, misty, smooth sea, temperature 63°; Cape Otway, W., 18, misty, moderate sea, temperature 60°; Wilson's Promontory, W., 18, squally, smooth sea, temperature 63. New South Wales: Deniliquin, calm, fine, temperature 72°; Albury, W., 14, fine, temperature 74°; Goulburn, N.W., fine, temperature 74°; Eden, S.E., fine, smooth sea, temperature 63°; Moruya, N.E., 14, dull, smooth sea, temperature 60°; Cape George, N.E., cloudy, smooth sea, temperature 66°; Sydney, E., 8, fine, smooth sea, temperature 69°; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., 42, cloudy, smooth sea, temperature 78°; Clarence River, N.E., 14, cloudy, smooth sea, temperature 78°. New Zealand: Generally strong N.W. winds up to 50 miles an hour, except Hokitiki, S.W., moderate, and Bluff, S.W. moderate, weather threatening in S.S.E. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 8 inches above summer level; Balranald, 7 feet 3 above summer level. Murray: at Hay, 3 feet 6 inches above summer level; Euston, 7 feet 11 inches above summer level. Darling: at Wentworth, 8 feet 3 inches above summer level; Menindie, 5 feet 7 inches above summer level; Wilcannia, 4 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 13 1888, with NOTES to 3 P.M.

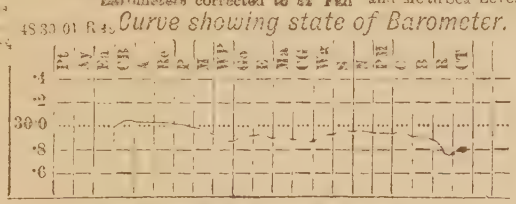
Sydney Observatory.

Lat. 33° 51′ 41″ *S.* ; *Long.* 10h. 4m. 50·87s *E*

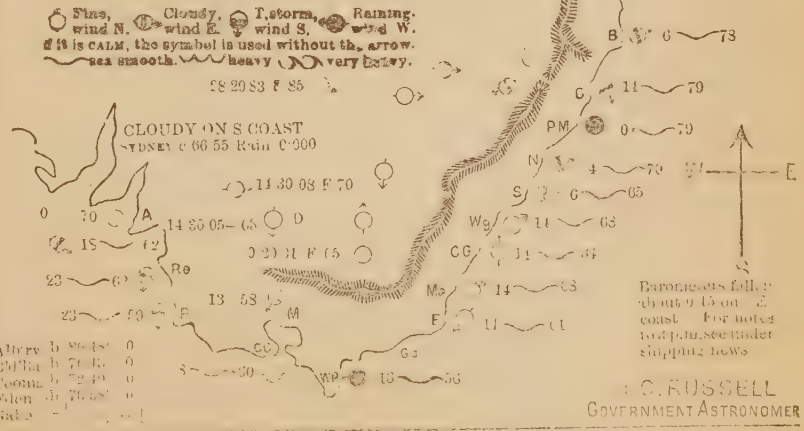
Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 . 45·525
Total Rainfall from Jan. 1st to December 13 39·563.
Barometers corrected to 32° Fah and Mean Sea Level

Stations				
Tasmo..	b	86 65		0
Tenterfld	g	91 58		0
Moree....	b	94 63		0
Grafton..	g	80 62		0
Cl'n Dun's	g	92 54		0
Inverell..	b	82 57		0
Bourke ..	b	92 64		0
Narrabri	b	99 .		0
Armidale	b	3,		0
Bendem'r	b	84 48		0
Gunned'h	b	95 51		0
Coonamb'le	b	91 40		0
Tamworth	b	98 57		0
Coonab'rn	b	85 52		0
P.Macquarie	p	75 63	0	06
Wilcannia	b	97 63		0
Murr'undi	b	80 63		0
Cessnlis..	g	94 60		0
Mus'br'ok	b	87 58		0
Dubbo...	b	81 61		0
Menindie	b	82 60		0
Mudgee...	b	87 59		0
Maitland.	g	76 62		0
Hill End.	b	84 .		0
Newcastle	b	76 60	0	19
Orange..	b	76 50		0
Bathurst	b	82 48		0
13 67		E		
Forb's	b	86 60		0
Mt Vict'ria	b	66 49		0
Condob'lin	–	..		..
Picton..	g	68 42		0
Carcoar..	b	74 42		0
Wentw'th	b	82 53		0
Young...	b	79 54		0
Wollgo'ng	b	70 50		0
Hay....	–			
Moss Vale	b	64 45		0
Euston...	b	82 45		0
Goulburn	b	76 47		0
Wagga...	b	84 53		0
Cape Geo.	b	68 45		0
Queanb'n	b	87 53		0
Deniliq'n	b	82 52		0
Moruya..	b	69 50		0
Kiandra...	b	90 5		0

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the ARROW.
sea smooth. heavy very heavy.



C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 14.

Victoria: Cloudy and showery, winds moderate from W. and S.W., and calm, sea slight and smooth. Rain: Wilson's Promontory, 0·060, and Portland, 0·070. Fine in north of Tasmania, wind fresh from west. New South Wales: Fine at majority of stations, cloudy south of Sydney, with light southerly winds; fine up north, winds N.E.; barometers falling all down coast, sea smooth. Queensland: Fine in south of colony, light S.E. and S.W. winds; calm and cloudy at Cooktown. Victoria: Barometers steady. 3 p.m. Observations.—Melbourne, S., fine, temperature 64°; Cape Otway, W., 18, showery, sea moderate, temperature 56°; Portland, S.S.E., 28, fine, sea smooth, temperature 63°; Wilson's Promontory, W., 34, showery, sea moderate, temperature 59°. New South Wales: Moruya, S.E., 28, dull, sea smooth, temperature 63°; Sydney, S., 12, dull, sea smooth, temperature 71°; Port Macquarie, N.N.E., 42, thunderstorm, sea smooth, temperature 77°; Goulburn, W., 14, fine, temperature 75°; Cape George, S.E., 42, fine, sea smooth, temperature 70°; Newcastle, E., fine, sea smooth. New Zealand: Fine generally, with light northerly winds; rough sea at Gisborne. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 8 inches above summer level; Balranald, 7 feet 1 inch above summer level. Murray: At Albury, 3 feet 2 inches above summer level; Euston, 7 feet 9 inches above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; Pooncarie, 7 feet 7 inches above summer level; Menindie, 5 feet 4 inches above summer level; Wilcannia, 4 feet above summer level.

WEATHER MAP.

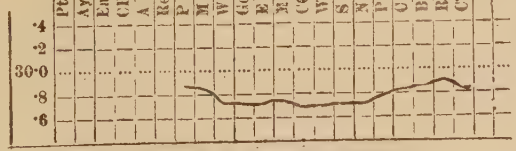
COMPILED from TELEGRAMS for 9 A.M., DEC 14 1883, with NOTES to 3 P.M

Sydney Observatory.

Lat. 33° 51′ 41″ S.; Long. 10h. 4m. 50·61s E.

Average Annual Rainfall for 22 years ..... 51·461
Average for 23 years from Jan. 1st to October 31 .. 45·525.
Total Rainfall from Jan. 1st to December 14 39·563.
Barometers corrected to 32° Fah and Mean Sea Level

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. Thunderstorm, wind S. Raining, wind W.
If it is CALM, the cymbal is used without the arrow.
sea smooth. heavy very heavy

Stations	W't	M'x	M.S	R'fall
Casino..	b	95 57		0
Tenterfield	b	84 54		0
Moree....	b	92 66		0
Grafton..	b	.. 61		0
Gl'n Inn's	b	92 53		0
Inverell..	b	83 57	0	10
Bourke ..	b	92 67		0
Narrabri	b	101		0
Armidale	g	76		0
Bendem'r	b	89 45		0
Gunned'h	–	..		.
Coonam'le	–	..		..
Tamworth	–	.		..
Coonab'rn	–	..		.
P.Macqrie	b	78 66		0
Wilcannia	b	96 61		0
Murr'undi	b	84 66		0
Cessnlis..	–	—		.
Mus'br'ok	b	92 61		0
Dubbo...	b	88 64		0
Menindie	b	90 62		0
Mudgee..	.	.		.
Maitland.	b	82 63		0
Hill End.	–	..		..
Newcastle	b	74 62		0
Orange..	b	79 43		0
Bathurst	.	—		.
	E			
Forb's	b	94 63		0
Mt Vict'ria	b	85 53		0
Condob'lin	b	84 49		0
Picton..	b	75 58		0
Carcoar..	–	..		.
Wentw'th	b	86 57		0
Young...	b	82 51		0
Wodgo'ng	–	--		.
Hay....	.	..		..
Moss Vale	b	75 58	0	04
Euston...	b	88 73		0
Goulburn	b	87 52		0
Wagga...	b	89 54		0
Cape Geo.	c	74 56	0	40
Queanb'n	b	86 58		0
Deniliq'in	b	81 49		0
Moruya..	g	72 57		0
Kiamira..	b	97 52		0

Alb'ry	b	88	46	0
B'd'lla	g	78	54	0 08
Cooma	b	81	45	0
Eden	g	78	57	0
Gabo	–	..	..	..

WO, Wollongong
CO, Cape George
Ma, Moruya
E, Eden
Go, Gabo
WP, Wilsons Prom
CO, Cape Otway
M, Melbourne
P, Portland
Bo, Bourke
Re, Robe
CB, Cape Borda
A Adelaide
Ea, Eucla
AS, Alice Springs
PD, Port Darwin

TIME BALL
Drops at 1 p.m. S M or 2h 55m 9·19s a m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 15.

South Australia: Light detached clouds round southern coast, winds light, from S.E. and N.W., barometers falling; cloudy inland, winds N.W. Victoria: Cloudy weather round coast, sea moderate, barometers falling, winds fresh from S.; rain 0·060, at Wilson's Promontory; fine, with fresh westerly wind, in north of Tasmania. New South Wales: Fine and clear throughout colony, smooth sea, steady barometers, and light easterly winds on coast; fine, warm, and calm inland. Queensland: Fine and clear, light easterly winds in north, and northerly in south. 3 p.m. Observations.—Victoria: Barometers steady; Melbourne, S.S.W., 14, cloudy, temperature 63°; Cape Otway, S., 14, cloudy, sea smooth, temperature 67°; Wilson's Promontory, W.S.W., 18, cloudy, sea smooth, temperature 58°. New South Wales: Wentworth, N.N.W., cloudy, like rain, temperature 85°; Moruya, E., 14, dull, sea moderate, temperature 70°; Sydney, N.E., 12, cloudy, sea smooth, temperature 72°; Menindie, W.N.W., cloudy, hot, temperature 87°; Deniliquin, calm, cloudy, temperature 80°; Goulburn, W., cloudy, temperature 78°; Cape George, N., 42, fine, sea smooth, temperature 70°; Newcastle, N.E., fine, sea smooth. New Zealand: Generally fine, with N.W. winds, hot N.W. gale, 50 miles, with high sea at Wellington. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 8 inches above summer level; Balranald, 6 feet 9 inches above summer level. Murray: At Albury, 2 feet 7 inches above summer level; Euston, 8 feet 1 inch above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; Pooncarie, 7 feet 5 inches above summer level; Menindie, 5 feet 1 inch above summer level; Wilcannia, 4 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 15 1881, with NOTES to 3 P.M.

Sydney Observatory.

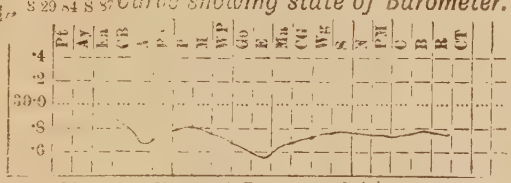
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s. E.*

Average Annual Rainfall for 21 years ..... 51·461
Average for 21 years from Jan. 1st to October 31 ..45 525.
Total Rainfall from Jan. 1st to December 15 39 563.
Barometers corrected to 32° Fah and Mean Sea Level

Stations.	W.	W'x	M.S.	R'fall
Casino..	b	95 64		0
Tenterfild	b	88 64		0
Moree....	b	94 63		0
Grafton...	b	.. 64		0
Gl'n Inn's	b	94 48		0
Inverell..	b	83 51		0
Bourke ..	b	96 69		0
Narrandi	b	98 57		0
Armidale	b	86		0
Lendem'r	b	88 45		0
Gunned'h	b	90 49		0
Coonam'le	b			0
Tamworth	b	98 45		0
Coonab'ra	b	90 42		0
P.Macqrie	b	80 66		0
Wilcannia	–	—		.
Murr'undi	b	84 54		0
Cassilis..	b	101 50		0
Mus'br'ok	b	95 61		0
Dubbo...	b	88 62		0
Menindie				
Mudgee..	b	89 50		0
Maitland.	b	92 67		0
Hill End.	b	84		0
Newcastle	b	98 62		0
Orange..	b	77 45		0
Bathurst	b	88 44		0
Forb's	b	95 60		0
Mt Vict'ria	b	83 47		0
Condob'lin	b	88 50		0
Picton..	b	79 54		0
Carcoar..	b	75 47		0
Mentw'th	–	..		..
Young...	b	81 50		0
Wollgo'ng	–	—		.
Hay...	–			—
Moss Vale	b	79 54		0
Euston...	g	92 72		0
Goulburn	b	83 47		0
Wagga...	b	87 52		0
Cape Geo.	b	70 75		0
Gogan'n	b	84 55		0
Deniliq. in	b	82 54		0
Moruya..	b	71 56		0
Kiandra..	b	65 47		0

Albury	b	86 48	0
B'd'lla	b	73 54	0
Coonr	b	81 41	0
Eden	b	66 57	0
Gabo	–	..	..

S 29 84 S 87 *Curve showing state of Barometer.*



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy. very heavy.

28 29 70 E 89

CLOUDY ON S COAST
SYDNEY b 79 62 Rain 0·000

3 61 A 14 29 79 F 66 D
13 62
0 29 88 E 79
13 56 Re
25 60 P
8 M
CO
14 55
WP 18 56
Ma 14 70
E 14 63
CG 28 67
Wo
S 7 74
N 3 71
PM 23 75
C 12 75
B 8 84

MI's WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

WEATHER.
b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a m
Greenwich M'n Time
MAG. VAR. 9° 35 30 E

W — E
S

Barometers fallen about 0·10 on S E st For notes 3 p.m. see under pping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 16.

Western Australia: Perth, barometer 30·01, S.E., 8 fine, rough sea, temperature 66°. South Australia: Weather cloudy and warm, generally fine on Southern coast; sea smooth; barometers rising slowly; winds light and variable; no rain. Victoria: Fine weather, with scattered clouds; slight sea, steady barometers, and light easterly winds on coast. Fine in Tasmania; wind light from N.E. New South Wales: Fine weather, light tropical winds and calms; barometers rising, cloudy on coast south of Sydney; sea smooth; light rain measured at Moruya and Bodalla. Queensland: Fine and clear, light E.N.E. and northerly winds. 3 p.m. Observations.—Victoria: Melbourne, S.W., 13, fine, temperature 66°; Portland, N.E., 18, fine, sea slight, temperature 63°; Cape Otway, S.E., 8, fine, sea smooth, temperature 63°; Wilson's Promontory, S.E., 40, fine, clear, sea moderate, temperature 63°. N. S. W.: Wentworth, N.W., cloudy and sultry, temperature 98°; Eden, S.E., 14, cloudy, sea smooth, temperature 61°; Moruya, S.E., 42, showery, sea smooth, temperature 66°; Cape George, N., 42, cloudy, sea smooth, temperature 70°; Sydney, N.E., 8, cloudy, sea smooth, temperature 73°; Port Macquarie, E., 14, cloudy, sea smooth, temperature 80°; Menindie, W.N.W., cloudy, hot, temperature 92°. New Zealand: Strong N.W. gales generally; blowing gale 56 miles at Wellington, with rough sea. State of Rivers.—Murrumbidgee: At Balranald, 6 feet 6 inches above summer level. Murray: At Albury, 2 feet 4 inches above summer level; Euston, 8 feet 3 inches above summer level. Darling: At Wentworth, 8 feet 7 inches above summer level; Pooncarie, 7 feet 3 inches above summer level; Menindie, 4 feet 10 inches above summer level; Wilcannia, 3 feet 10 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M. DEC 16 1881, with NOTES to 3 P.M.

Sydney Observatory.

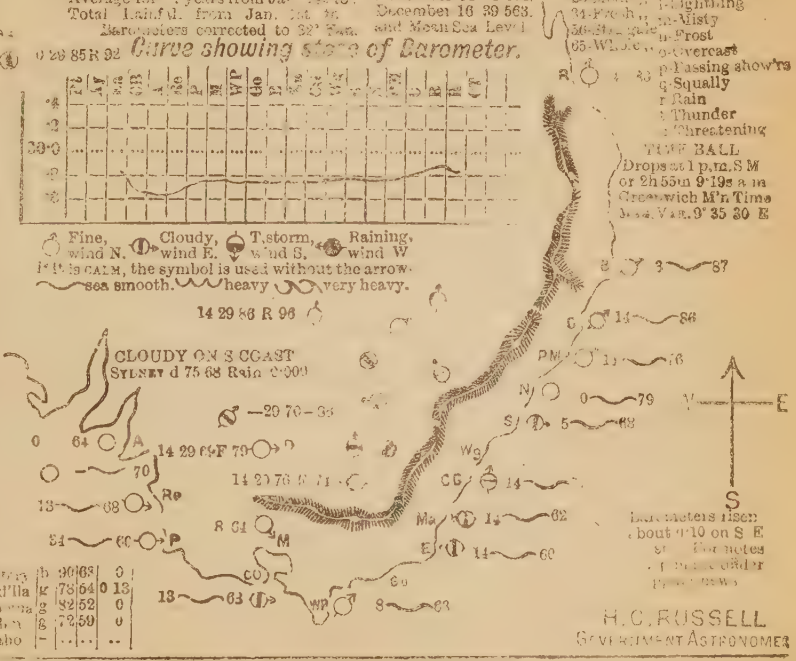
Lat. 33° 51′ 41″ S. : *Long.* 151° 12′ 30″ E.

Average Annual Rainfall for 21 years 51·461

Average for 7 years from Jan. 1st to November 31 48 854.

Total Rainfall from Jan. 1st to December 16 39 563.

Barometers corrected to 32° Fah. and Mean Sea Level



Stations	W	M'x	Min	R
Casino	b	101.62		0
Tenterfield	b	80 58		0
Warren	b	99.72		0
Grafton	b	..64		0
Clarence	b	94.51		0
Inverell	b	87.50		0
Bourke	b	99 75		0
Narrandera	b	103.66		0
Armidale	b	85		0
Bendemeer	b	90.57		0
Gunnedah	b	103.61		0
Coonamble	b	102.65		0
Tamworth	b	96.66		0
Toonabarra	b	94.53		0
E. Macquarie	b	79.[illegible]		0
Wilcannia	b	105.73		0
Murrurundi	b	87.60		0
Cassilis	b	77.[illegible]		0
Muswellbrook	b	93.66		0
Dubbo	g	92 70		0
Menindie	c	99.70		0
Hudgee	g	95.65		0
Maitland	c	90.70		0
Hill End	c	84		0
Newcastle	b	85.68		0
Orange	c	82.57		0
Bathurst	c	85.68		0
Port Macq'rie	b	90.63		0
Port Vict'ria	c	79 53		0
Condobolin	b	99.60		0
Forbes	g	82.55		0
Carcoar	c	79.65		0
Wentw'th	c	100.73		0
Young	c	85.61		0
Wellington	—	—	—	—
Bega	—	..	..	—
Mt. Kosc'sko	g	82.60		0
Euston	b	95.68		0
Goulburn	g	85.55		0
Waggaw	g	93.59		0
Cape Geo.	c	70.59		0
Queanb'n	b	81.61		0
Denilquin	b	88.61		0
Hexham	g	73.57	0	12
Kiandra	g	65.45		0
Albury	b	90.63		0
B'd'lla	g	73.54	0	13
Corowa	g	82.52		0
Echuca	g	72.59		0
Gabo	—	..	..	..

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 17.

Western Australia: No report. South Australia: Barometers rising slowly; overcast all over the colony, heavy thunderstorms, with little rain, in the tropics last night; wind generally S. and S.W. Victoria: Reports a low barometer still falling, winds fresh from E.N.E., with more or less rain; sea rough at Wilson's Promontory, and moderate at Western ports. Rain—Melbourne, 0·090; Otway, 0·470; Portland, 0·270; Omeo, 0·150; fine inland. Overcast, with fresh N.E. wind, in Tasmania. New South Wales: Cloudy on coast south of Port Macquarie; barometers falling; winds moderate and variable, sea smooth; for rainfall, &c., see map; weather very warm, and fine inland, especially to N.W. At Hay, thunderstorm from 4 to 8 p.m., with very vivid lightning, on Friday. Queensland: Cooktown, barometers 29·91; calm, fine, temperature 89° 3 p.m. Observations.—Victoria: Barometers low and steady; Portland, W., 23, showery, rough, temperature 63°; Cape Otway, 28, showery, smooth, temperature 68°; Wilson's Promontory, N.E., 40, squally with rain, rough, temperature 59°. New South Wales: Albury, S.W., strong, cloudy, hot; Eden, E., 20, raining, light easterly sea, temperature 65°; Moruya, S.E., 14, showery, moderate sea, temperature 65°; Cape George, N.E., cloudy, smooth sea, temperature 70°; Sydney, N.E., 10, foggy all day, smooth sea, temperature 71°; Newcastle, E.S.E., 10, fine, smooth sea; Port Macquarie, E.N.E., 20, stormy, smooth sea, temperature 80°. New Zealand: N.W. winds in north island; blowing gale 56 miles, Wellington, and S.W. winds in south; but S.E. at Timaru, weather threatening in S.E., hail last night. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 9 inches above summer level; Hay, 3 feet 4 inches above summer level; Balranald, 6 feet 3 inches above summer level. Murray: At Euston, 3 feet 9 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 17 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·9*s.* E.

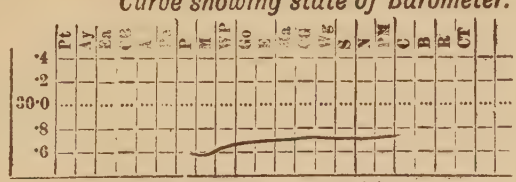
Average Annual Rainfall for 21 years ..... 51 4..
Average for . years from ... 1st to November 31 48 854
Total Rainfall from Jan. 1st to December 17 39·573.
Barometers corrected to 32° Fah and Mean Sea Level.

Stations.	Wt	M'ln	Rain	R'in
Casino..	b	102	69	0 25
Tenterfield	q	98	63	0
Moree....	q	103	80	0
Grafton..	b	.	62	0
Gl'n Inn's	b	93	55	0
Inverell..	b	89	50	0
Bourke ..	–	..	..	.
Narrabri	g	105	74	0
Armidale	b	88		0
Bendem'r	b	94	58	0
Gunned'h	–	..		—
Coonamble	–		..	..
Tamworth	b	113	41	0
Coonab'rn	b	99	66	0
P.Macqrie	b	82	71	0
Wileannia	–	..	..	—
Murr'undi	b	92	68	0
Cassilis..	b	99	49	0
Mus'br'ok	b	104	69	0
Dubbo...	b	98	76	
Menindie	–	..	..	—
Mudgee..	b	85	68	0
Maitland.	g	88	71	0
Hill End.	b	86		0
Newcastle	c	83	68	0
Orange..	b	89	62	0 05
Bathurst	b	91	63	0
	S			
Forb's	b	101	70	0
Mt Vict'ria	r	81	8	0 02
Condob'lin	b	.		—
Picton..	g	77	57	0
Carcoar..	b	82	65	0 03
Wentw'th	–	..	..	—
Young...	b	88	67	0
Wollgo'ng	–	..	..	.
Hay...	–	..		..
Moss Vale	g	81	61	0
Euston...	b	112	59	0
Goulburn	b	88	60	0
Wagga...	b	94	68	0 11
Cape Geo.	g	73	58	0 97
Queanb'n	b	87	62	0 03
Deniliq in	b	100	68	0
Moruya..	–	..		..
Kiandra..	b	80	46	0

Alb'ry	–	..	..	..	—
B'd'lla	r	74	54	0	10
Coonamble	c	86	54		0
Eden	–	..	..	..	..
Dubbo	–	..	..	..	..

As

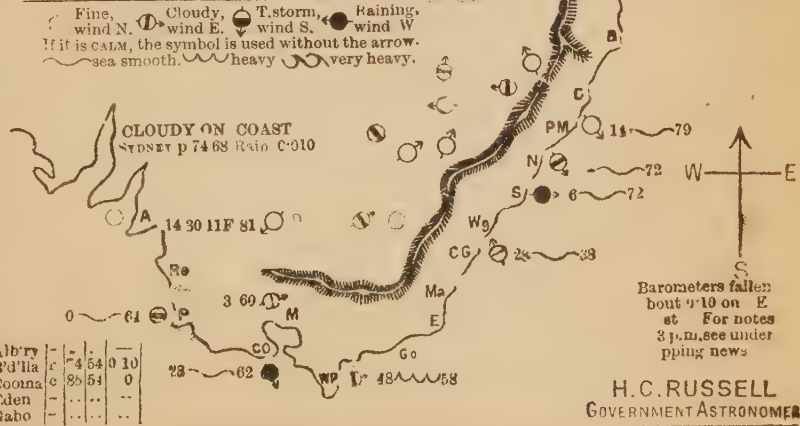
Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W

If it is CALM, the symbol is used without the arrow.

sea smooth. heavy very heavy.



WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL.
Drops at 1 p.m. M
or 2h 55m 9·198s a m
Greenwich M'n Time
Mag Var 9° 35 30 E

Barometers fallen
bout 9·10 on E
st For notes
3 p.m. see under
pping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 19.

Victoria: Cloudy and raining, with fresh S.E. winds and moderate sea; sea rough at Wilson's Promontory; rain, Melbourne 0·270, Wilson's Promontory 0·860, Portland 0·290, Lake Entrance, 0·520. Low Heads, Tasmania: North, fine weather, wind fresh from S.E. New South Wales: Fine and clear in N. and N.W. of colony, raining in south and south-west, especially to east of mountains, but extending inland, also as far as Euston; heavy thunderstorm from W. at Sydney, with strong W. and W.N.W. wind, heavy rain, light hail, and thunder and lightning at 10.30 a.m. Queensland: Fine and calm at Cooktown. 3 p.m. Observations.—Victoria: Melbourne, S., 13, showery, temperature 60°; Portland, S.S.E., 34, dull, rather rough sea, temperature 60.; Cape Otway, S., 13, cloudy, rough sea, temperature 63°; Wilson's Promontory, S., 28, cloudy, rather rough sea, temperature 60°. New South Wales: Deniliquin, W., dull, temperature 76°; Goulburn, W., dull, temperature 68°; Eden, S.W., 14, showery, light easterly sea, temperature 64°; Moruya, S.E., 20, heavy thunderstorm, moderate sea, temperature 60°; Sydney, S.E., 8, raining, smooth sea, temperature 67°; Newcastle, S.E., fine, smooth sea. New Zealand: Cloudy generally, light N.E. winds North Island, S.W. wind and rain at the Bluff. Violent thunderstorm at Sydney at 10.30 a.m. from N.W., with very heavy rain and wind and little hail; in the strongest gust the velocity of the wind was at the rate of 70 miles; rain 0·585 up to 9 p.m. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 6 inches above summer level; at Hay, 3 feet above summer level; at Balranald, 6 feet 1 inch above summer level. Murray: At Albury, 1 foot 10 inches above summer level; Euston, 8 feet 9 inches above summer level.

WEATHER MAP.

COMPILED from **Telegrams** for 9 A.M., DEC 19 1881, with **Notes** to 3 P.M.

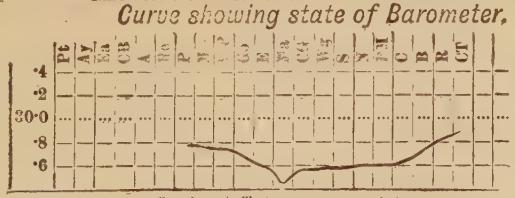
Sydney Observatory.

Lat. 33° 51′ 41″ *S* ; *Long.* 10*h.* 4*m.* 50·81*s* *E*

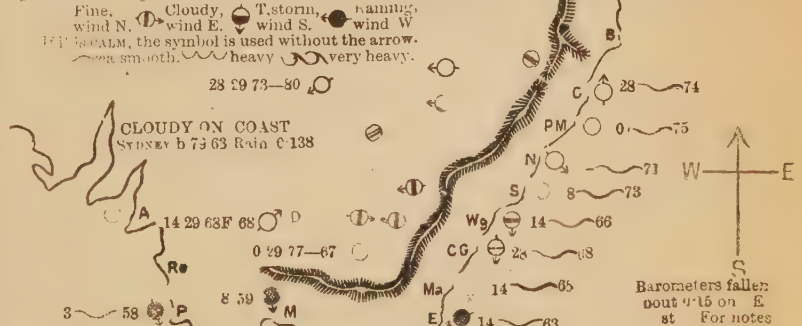
Average Annual Rainfall for 21 years 51·461
Average for 7 years from Jan. 1st to November 31 48·854
Total Rainfall from Jan. 1st to December 19 39·711.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W.	B.	R.	Ch.
Tenino.	c	84 59	0	15
Waterfild	g	94 54	0	
Moree....	b	84 60	0	10
Grafton..	b	. 62	0	19
Gl'n Inn's	b	93 51	0	31
Deverell..	b	90 50	0	90
Bourke ..	b	95 67	0	53
Narrabri	b	98 69	0	
Armidale	b	71		0
Bendem'r	c	80 54		0
Ganned'h	b	95 60	0	46
Coonam'le	–			–
Tamworth	b	91 60	0	03
Coonab'rn	b	96 53		0
P. Macqrie	b	77 62	0	25
Wilcannia	–			—
Murr'undi	b	92 64	0	27
Cessnlis..	b	88 59		0
Mus'br'ok	b	89 62		0
Dubbo...	b	101 70		
Menindie	–			—
Mudgee..	b	100 58		0
Maitland.	b	90 65	0	04
Hill End.	b	80	0	09
Newcastle	b	91 64	0	09
Orange..	b	80 55	0	04
Bathurst	b	95 52		0
	E			
Forb's	b	98 65		0
Mt Vict'ria	g	83 51	0	32
Condob'lin	b	84 58		0
Picton..	b	79 54		0
Carcoar..	q	88 65	0	28
Wentw'th	–			—
Young...	b	85 68	0	04
Wollgo'ng	g	86 61	0	12
Hay....	–			
Moss Vale	r	87 35	0	03
Euston...	r	79 55		0
Goulburn	g	86 55	0	13
Wagga...	b	97 59		0
Cape Geo.	g	75 57		0
Queanb'n	c	94 52	0	20
Deniliq'in	b	91 57		0
Moruya..	c	74 56		0
Kiandra..	c	81 47		0

Alb'ry	b	—	54	0 15
B'd'lla	–	..	..	..
Cooma	c	83	47	0 48
Eden	p	76	60	0 68
Jabo	–	..	..	..



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W
CALM, the symbol is used without the arrow.
smooth. heavy very heavy.



Wind Scale.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. 31
or 2h 55m 9·198s a.
Greenwich M'n Time
Mag Var 9° 35 30 E

Barometers fallen about 9·15 on E st For notes 3 p.m. see under pping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 20.

Victoria: Weather still cloudy, but apparently clearing. Barometers rising slowly; winds moderate from S. and S.W.; sea moderate; showery at Melbourne. Fine and clear with fresh S. wind in Tasmania. Rain in Victoria; Melbourne, 0·260; Wilson's Promontory, 0·110; Portland, 0·030. New South Wales: Fine and clear in the N. and N.W. and at inland stations generally; still cloudy on the coast, but clearing. Raining at Newcastle, smooth sea, rising barometers, and fresh southerly winds on coast; cloudy weather extends inland as far as Tamworth in the N.W., and Wagga Wagga in S.W. Queensland: Fine and clear, with light southerly winds and moderate sea. 3 p.m. Observations.—Victoria: Melbourne, S., 10, fine, temperature 60°; Portland, S., 23, cloudy, smooth sea, temperature 60°; Cape Otway, S.W., 18, misty, moderate sea, temperature 56°; Wilson's Promontory, W.S.W., 23, cloudy, squally, rough sea, temperature 56°. New South Wales: Wentworth, S., fine, temperature 69.; Albury, S.W., cloudy, temperature 76°; Goulburn, W., fine, temperature 70°; Eden, S.W., 20, fine, light easterly, temperature 67°; Moruya, S.E., 28, fine, moderate sea, temperature 72°; Cape George, S.S.E., 28, fine, light sea, temperature 66°; Sydney, E.S.E., 8, light clouds, smooth sea, temperature 68°; Newcastle. S.E., fine, smooth sea; Port Macquarie, S., 56, fine, smooth sea, temperature 73°; Menindie, S.W., fine, temperature 72°. New Zealand: Generally N.W. winds, blowing gale, 56 miles an hour at Taranaki, with very high sea, moderate N.E. wind at the Bluff. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 6 inches above summer level; at Hay, 2 feet 10 inches above summer level; at Balranald, 4 feet 10 inches above summer level. Murray: At Albury, 2 foot above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 20 1881, with NOTES to 3 P.M.

Sydney Observatory.

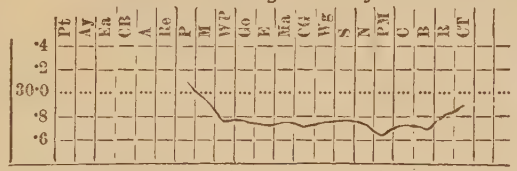
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 21 years ..... 51·461
Average for [illegible] years from Jan. 1st to November 31 48 854.
Total Rainfall from Jan. 1st to December 20 40 852.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W'r	W'x	M.	R'in
Casino..	b	94	52	0
Tenterfild	b	82	54	0
Moree....	b	88	64	0
Grafton..	b	.	62	0
Gl'n Inn's	b	92	45	0
Inverell..	b	90	59	0
Bourke ..	b	90	66	0
Narrabri	b	93	62	0
Armidale	b	78	..	0
Bendem'r	g	79	49	0
Gunned'h	c	95	53	0
Coonam'le	b	88	57	0
Tamworth	c	94	54	0
Coonab'rn	b	84	51	0
P.Macqrie	g	81	60	0 12
Wilcannia	–	..	.	—
Murr'undi	c	82	59	0
Cassilis..	b	87	57	0
Mus'br'ok	g	82	61	0
Dubbo...	b	86	63	
Menindie	–	...	..	—
Mudgee..	g	83	55	0
Maitland.	r	86	61	0 05
Hill End.	b	80	.	0
Newcastle	r	89	58	1 19
Orange..	g	74	50	0 10
Bathurst	b	74	51	0
Forb's	b	89	54	0
Mt Vict'ria	g	69	46	0 81
Condob'ln	b	75	50	0 18
Picton..	b	76	54	0 51
Carcoar..	b	72	52	0 27
Wentw'th	–	.	..	—
Young...	b	73	57	0 08
Wollgo'ng	–	.	.	.
Hay....	–	.		..
Moss Vale	g	59	49	0 13
Euston...	–	..	..	—
Goulburn	b	72	48	0 18
Wagga...	c	86	54	0 20
Cape Geo.	b	75	52	1 15
Queanb'n	b	94	53	0 30
Deniliq'in	b	84	51	0
Moruya..	b	74	42	0
Kiandra..	b	33	50	0

Alb'ry	b	76	50	0 03
B'd'lla	b	77	52	1 16
Cooma	c	65	44	0 39
Eden	b	67	55	0 55
Gabo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W

If it is CALM, the symbol is used without the arrow.

sea smooth. heavy very heavy.

WIND SCALE. MI's

13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

WEATHER.

b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL

Drops at 1 p.m. S M or 2h 55m 9·19s a m Greenwich M'n Time

MAG. VAR. 9° 35 30 E

Barometers risen abou 9·15 on E coast For notes to 3 p.m. see under shipping news

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 21.

Western Australia: Weather fine, with easterly winds; barometers, 29·80. South Australia: N.E. and E. winds in southern parts of S.E. in central Australia, sky generally clear, but cloudy in S.E.; barometers falling. Victoria: Cloudy weather all round coast; barometers steady, but slowly falling; sea moderate generally, rough at Wilson's and showery. Rain: Otway, 0.050; Wilson's, 0.020. Low Heads, Tasmania: Fine with fresh W.N.W. breeze. New South Wales: Fine clear weather throughout colony, smooth sea, rising barometers, and light easterly and N.E. winds en coast. Queensland: Fine and clear with light easterly and N.E. winds. 3 p.m. Observations.—Victoria, barometers steady: Melbourne, S.W., 13, fine, temperature 63°; Portland, S.W., 34, cloudy, sea smooth, temperature 61°; Cape Otway, W., 18, misty, rough sea, temperature 60°; Wilson's Promontory, W., 22, passing showers, rough sea, temperature 59°. New South Wales: Deniliquin, calm fine, temperature 77°; Eden, E., 28, fine, light sea, temperature 66°; Moruya, N.E., 20, fine, moderate sea, temperature 71°: Cape George, N., 42, fine, moderate sea, temperature 68°; Sydney, N.E., 8, fine, sea smooth, temperature 74°; Newcastle, N.E., fine, sea smooth; Port Macquarie, E.N.E., 28, fine, sea smooth, temperature 75°. New Zealand: N.W. winds generally at Taranaki, rising to gale 56 miles with high sea. Rain: 0.50 at Wellington. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 6 inches above summer level. Murray: At Albury, 2 foot above summer level; Euston, 9 feet 1 inch above summer level. Darling: At Wentworth, 8 feet 9 inches above summer level; Pooncarie, 6 feet above summer level; Menindie, 4 feet 2 inches above summer level; Wilcannia, 3 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 21 1881, with NOTES to 3 P.M.

Sydney Observatory.

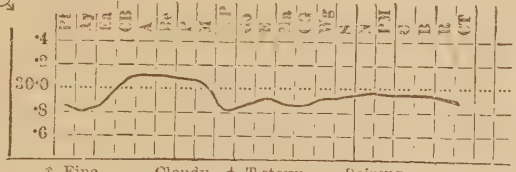
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 21 years ..... 51·461
Average for 23 years from Jan. 1st to November 31 48 854.
Total Rainfall from Jan. 1st to December 31 40 852.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations.	W'l	W'x	M.	R'in
Casino..	b	93	54	0
Tenterfild	b	78	49	0
Moree....	b	84	62	0
Grafton..	b	.	61	0
Gl'n Inn's	b	94	42	0
Inverell..	b	89	50	0
Bourke ..	b	92	62	0
Narrabri	b	92	55	0
Armidale	b	78		0
Bendem'r	b	80	44	0
Gunned'h	–	—		—
Coonam'le	b	83	53	0
Tamworth	b	87	46	0
Coonab'rn	b	84	47	0
P.Macqrie	b	77	62	0
Wilcannia	b	85	60	0
Murr'undi	b	77	57	0
Cassilis..	b	89	53	0
Mus'br'ok	b	88	58	0
Dubbo...	b	81	61	0
Menindie	b	82	58	0
Mudgee..	b	86	53	0
Maitland.	b	76	62	0 03
Hill End.	b	82		0
Newcastle	b	91	59	0 74
Orange..	b	72	44	0
Bathurst	b	75	45	0
☾ 8 88		E		
Forb's	b	87	58	0
Mt Vict'ria	b	77	45	0
Condob'lin	b	75	43	0
Picton..	b	72	57	0
Carcoar..	b	70	47	0
Wentw'th	b	75	53	0
Young...	b	74	52	0
Wollgo'ng	b	79	57	0
Hay....	–			..
Moss Vale	b	70	52	0
Euston...	b	78	47	0
Goulburn	b	75	46	0
Wagga...	b	79	50	0
Cape Geo.	b	71	51	0
Queanb'n	b	71	51	0
Deniliq'in	b	78	53	0
Moruya..	b	77	48	0
Kiandra..	b	94	58	0

Alb'ry	b	80	46	0
B'd'lla	b	79	43	0
Cooma	b	65	38	0
Eden	b	71	34	0
Bobo	–	..	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W

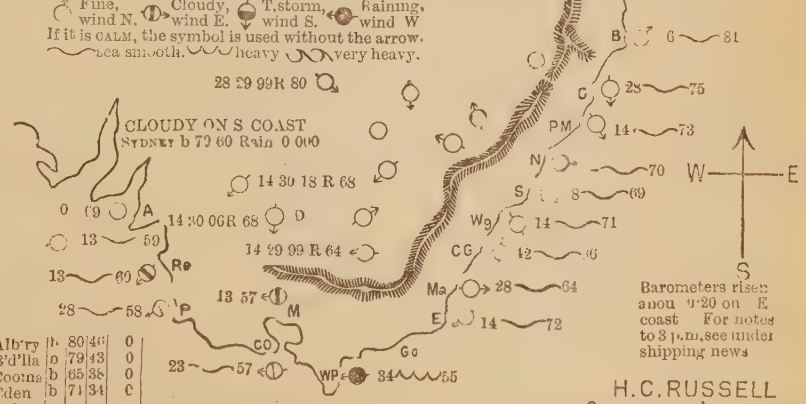
If it is CALM, the symbol is used without the arrow.

sea smooth. heavy very heavy.

WIND SCALE.
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E



H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 22.

Western Australia: Albany, barometer 29.66, W.N.W., smooth sea; Perth, wind N.W., 18, rough sea, cloudy. South Australia reports: Weather generally fine and clear, with hot winds from N. to N.E., and falling barometers; light clouds on south coast between Eucla and Borda, fine inland; wind S.E. Victoria: Still cloudy round coast, especially towards east; showery weather all night at Wilson's Promontory—measure, 0.120. Low Heads (Tasmania) reports hazy weather, with moderate N.W. breeze. New South Wales: Fine clear weather prevails over the whole of colony, excepting only the S.E. corner, where cloudy weather with rain reaches N, as far as Moruya; smooth sea, rising barometers, and light variable winds on coast. Queensland: Fine, with fresh northerly winds, sea moderate, 3 p.m. Observations.—Victoria: Barometers steady. Melbourne, S.W., 6, fine, clear, temperature 65°; Portland, S.E., 22, fine, smooth sea, temerature 64°; Cape Otway, S.E., 6, fine, smooth sea, temperature 66°; Wilson's Promontory, W.S.W., 18, smooth sea, temperature 63°. New South Wales: Wentworth, N.N.W., 14, fine, temperature 79°; Albury, W., 14, fine, temperature 78°; Goulburn, W., fine, temperature 72°; Eden, E., 28, dull, light sea, temperature 63°; Cape George, E.N.E., 42, fine, smooth sea, temperature 70°; Sydney, E.S.E., 12, cloudy, smooth sea, temperature 72°; Newcastle, S., 14, fine, smooth sea; Port Macquarie, E.N.E., 14, fine, smooth sea, temperature 80°; Menindie, N.N.E., fine, temperature 84°. New Zealand: Moderate S.W. winds generally. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 6 inches above summer level; at Hay, 5 feet 6 inches above summer level; at Balranald, 4 feet 10 inches above summer level. Murray: At Albury, 2 feet above summer level; Euston, 9 feet above summer level. Darling: At Wentworth, 8 feet 8 inches above summer level; Pooncarie, 6 feet 3 inches above summer level; Menindie, 4 feet above summer level; Wilcannia, 3 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 22 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

Average Annual Rainfall for 21 years ..... 51·461

Average for 23 years from Jan. 1st to November 31 48 854.

Total Rainfall from Jan. 1st to December 22 40 852.

Barometers corrected to 32° Fah. and Mean Sea Level

Stations	W't	M'x	M.A	R'in
Casino..	b	91	57	0
Tenterfild	b	88	52	0
Moree....	b	90	71	0
Grafton..	b	.	64	0
Gl'n Inn's	b	93	45	0
Inverell..	b	80	68	0
Bourke ..	–	.	..	—
Narrabri	b	98	57	0
Armidale	b	89		0
Bendem'r	b	85	45	0
Gunned'h	–	—		—
Coonam'le	b	93	56	0
Tamworth	b	98	47	0
Coonab'rn	b	87	44	0
P.Macqrie	b	78	66	0
Wilcannia	b	90	73	0
Murr'undi	b	84	57	0
Cassilis..	b	105	79	0
Mus'br'ok	b	93	56	0
Dubbo...	b	82	63	0
Menindie	b	86	63	0
Mudgee..	b	88	52	0
Maitland.	b	86	62	0
Hill End.	–	—		—
Newcastle	b	88	64	0
Orange..	b	76	48	0
Bathurst	b	81	47	0
40 93		6		
Forb's	b	89	59	0
Mt Vict'ria	b	84	54	0
Condob'ln	–	—	..	—
Picton..	g	86	60	0
Carcoar..	b	74	50	0
Wentw'th	b	86	61	0
Young...	b	80	54	0
Wollgo'ng	–	.	..	
Hay....	b	86	48	0
Moss Vale	b	79	58	0
Euston...	b	88	57	0
Goulburn	b	81	50	0
Wagga...	b	82	55	0
Cape Geo.	–	—	..	—
Queanb'n	b	81	55	0
Deniliq'in	b	84	49	0
Moruya..	r	72	50	0 15
Kiandra..	b	90	53	0

Albury	b	86	49	0
B'd'lla	g	78	59	0
Cooma	b	81	49	0
Eden	b	73	60	0
Gabo	–	..	..	..

As

Curve showing state of Barometer.

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W

If it is CALM, the symbol is used without the arrow.

sea smooth. heavy very heavy.

WEATHER.

b-Blue sky.
c-Scatter'd clouds
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h-Hail
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t-Thunder
u-Threatening

WIND SCALE.

M's	
13-Li't brze	
23-Mod.	,,
34-Fresh	,,
56-Strg gale	
65-Whole	,,

TIME BALL

Drops at 1 p.m. S M or 2h 55m 9·19s a.m. Greenwich M'n Time

MAG. VAR. 9° 35 30 E

Barometers rise about 0·20 on S E coast For notes to 3 p.m. see under shipping news

H.C. RUSSELL

GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 23.

Victoria: Fine weather generally round coast, with light broken clouds, sea smooth, barometers falling, wind light from N. and N.E., no rain. Low Heads, Tasmania: Weather hazy, wind light from N.E. New South Wales: Fine clear weather prevails, especially in the north-west and inland districts; cloudy on the coast at Moruya, barometers rising, wind fresh from E. and N.E., sea smooth. Queensland: Fine up north, with fresh S.E. winds, cloudy at Brisbane, light and N.E. breeze. 3 p.m. Observations.—Victoria: Melbourne, N.N.E., hot, dry, temperature 90°; Portland, N., 18, cloudy, smooth sea; Cape Otway, N., 18, hot, sultry, smooth sea, temperature 91°; Wilson's Promontory, N.E., 18, hazy, temperature 77°. New South Wales: Wentworth, N.W., cloudy, hot, temperature 100°; Albury, W., cloudy, temperature 84°; Goulburn, calm, fine, temperature 73°; Moruya, N.E., 28, fine, smooth sea, temperature 72°; Cape George, N.E., 28, fine, little sea, temperature 72°; Sydney, N.E., 12, fine, smooth sea, temperature 77°; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., 42, fine, smooth sea, temperature 80°; Menindie, N.N.W., 12, hot, temperature 89°. New Zealand: Fine generally; moderate S.W. winds generally. State of Rivers.—Murrumbidgee: At Wagga, 2 feet 4 inches above summer level; at Hay, 3 feet 4 inches above summer level; at Balranald, 3 feet above summer level. Murray: At Euston, 9 feet 1 inch above summer level. Darling: At Wentworth, 8 feet 7 inches above summer level; at Pooncarie, 6 feet 2 inches above summer level; at Menindie, 3 feet 10 inches above summer level; at Wilcannia, 3 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 23 1881, with NOTES to 3 P.M.

Sydney Observatory.

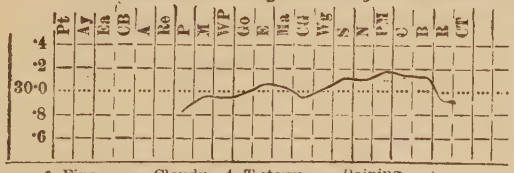
Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s. E.*

Average Annual Rainfall for 21 years ..... 51·461
Average for 23 years from Jan. 1st to November 31 48 854
Total Rainfall from Jan. 1st to December 23 40 852.
Barometers corrected to 32° Fah. and Mean Sea Lev l

Stations	W'th	M'X	M.N	R'in
Casino..	b	93	61	0
Tenterfild	b	94	55	0
Moree....	b	92	75	0
Grafton..	b	.	61	0
Gl'n Inn's	b	91	54	0
Inverell..	b	84	36	0
Bourke ..	b	99	67	0
Narrabri	b	105	64	0
Armidale	b	85	—	0
Bendem'r	b	90	44	0
Gunned'b	b	102	53	0
Coonam'le	–	—	—	—
Tamworth	b	112	60	0
Coonab'rn	b	95	52	0
P.Macqrie	b	81	70	0
Wilcannia	b	99	67	0
Murr'undi	b	89	65	0
Cassilis..	b	92	61	0
Mus'br'ok	b	93	64	0
Dubbo...	b	91	70	0
Menindie	b	95	64	0
Mudgee..	b	93	62	0
Maitland.	b	88	63	0
Hill End.	b	88		0
Newcastle	b	93	61	0
Orange..	b	84	60	0
Bathurst	b	88	57	0
E				
Forb's	b	99	61	0
Mt Vict'ria	b	82	54	0
Condob'ln	–	—	—	—
Picton..	g	81	57	0·02
Carcoar..	b	78	60	0
Wentw'th	b	96	68	0
Young...	b	86	61	0
Wollgo'ng	–	..	.	..
Hay....	b	94	48	0
Moss Vale	–	—	—	—
Euston...	b	99	68	0
Goulburn	b	99	58	0
Wagga...	b	93	63	0
Cape Geo.	b	74	59	0·27
Queanb'n	b	89	62	0
Deniliq'n	b	91	55	0
Moruya..	g	68	58	0·05
Kiandra..	b	91	64	0

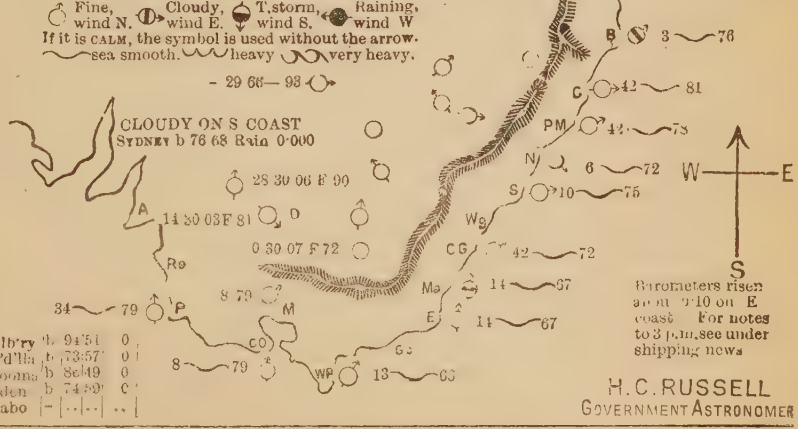
Alb'ry	b	94·51	0
B'd'lla	b	73·57	0
Cooma	b	86·49	0
Eden	b	74·59	0
Gabo	–	..	..

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

– 29 66— 93



WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
n-Threatening

WIND SCALE. M'S
13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

TIME BALL
Drops at 1 p.m. S M or 2h 55m 9·19s a m Greenwich M'n Time
MAG. VAR. 9° 35 30 E

Barometers risen since 9·10 on E coast For notes to 3 p.m. see under shipping news

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 24.

South Australia: Cloudy weather round coast and inland to lofty mountains, sea smooth, barometers rising slowly. Victoria: Cloudy weather round coast, winds hot and moderate from N. and N.W., sea smooth, barometers low and still falling. Low Heads, Tasmania: Dull, light E.N.E. wind. New South Wales: Fine, clear weather; light N.E. winds and falling barometers on coast, sea smooth; low barometers inland, with strong and very hot northerly winds; barometric depression all over south of colony, west of the Range. Queensland: Cloudy at Cooktown, fine at Rockhampton; winds south-easterly. 3 p.m. Observations.—Victoria: Barometers rising; Portland, W.S.W., 28, fine, smooth sea, temperature 71°; Cape Otway, N.W., 6, cloudy, sea smooth, temperature 76°; Wilson's Promontory, W., 22, squally, smooth sea, temperature 84°. New South Wales: Wentworth, N.W., cloudy, hot, temperature 100°; Albury, N.W., 10, cloudy, hot, temperature 87°; Goulburn, calm, fine, hot, temperature 78°; Moruya, N.E., 30, storm coming on, moderate sea, temperature 74°; Cape George, N., 30, fine, moderate sea from N.E., temperature 75°; Sydney, N.E., 30, fine, windy, temperature 76°; Newcastle, N.E., fine, smooth sea; Port Macquarie, N.E., 20, fine, smooth sea; Menindie, N.N.W., 20, hazy, hot, temperature 88°. New Zealand: Fine generally. State of Rivers.—Murrumbidgee: At Wagga, 3 feet above summer level; at Balranald, 3 feet 6 inches above summer level. Murray: At Euston, 9 feet above summer level. Darling: At Wentworth, 8 feet 6 inches above summer level; at Pooncarie, 6 feet 1 inch above summer level; at Menindie, 3 feet 8 inches above summer level; at Wilcannia, 3 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 24 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s.* *E.*

Average Annual Rainfall for 21 years ..... 51·461.
Average for 23 years from Jan. 1st to November 31 48 854
Total Rainfall from Jan. 1st to December 24 40 852.
Barometers corrected to 32° Fah. and Mean Sea Lev l

Stations.	W'r	M'x	M.	R'in
Casino..	b	93	54	0
Tenterfild	b	86	54	0
Moree....	–	—	—	—
Grafton..	b	–	62	0
Gl'n Inn's	b	92	54	0
Inverell..	–	–	—	—
Bourke ..	b	102	68	0
Narrabri	–	—	—	—
Armidale	b	82	—	0
Bendem'r	b	92	44	0
Gunned'h	–	—	—	—
Coonam'le	–	—	—	—
Tamworth		—	—	—
Coonab'rn	b	98	52	0
P.Macqrie	b	82	65	0
Wilcannia	b	90	78	0
Murr'undi	–	—	—	—
Cassilis..	b	102	65	0
Mus'br'ok	–	–	—	—
Dubbo...	b	95	74	0
Menindie	b	101	72	0
Mudgee..	b	97	36	0
Maitland.	b	9	71	0
Hill End.	b	88	—	0
Newcastle	b	96	67	0
Orange..	b	85	59	0
Bathurst	b	93	00	0
Forb's	b	99	66	0
Mt Vict'ria	–	—	—	—
Coudob'lin	b	87	63	0
Picton..	–	—	—	0
Carcoar..	–	—	—	—
Wentw'th	b	106	74	0
Young...	b	89	67	0
Wollgo'ng	–	—	—	—
Hay....	b	104	73	0
Moss Vale	–	—	—	—
Euston...	b	109	77	0
Goulburn	b	94	58	0
Wagga...	b	100	66	0
Cape Geo.	b	77	63	0
Queanb'n	–	—	—	—
Deniliq'in	g	101	72	0
Moruya..	b	74	68	0
Kiandra..	b	83	57	0

Albury	b	–	51	0
B'd'lla	b	73	65	0
Cooma	–	—	—	—
Eden	–	—	—	—
Gabo	–	—	—	—

H.C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 26.

New South Wales: Fine clear weather prevails throughout the colony; barometers falling on coast, with light N.E. winds and calm smooth sea; inland barometers are rising, with light southerly winds and calms, light rain, 0.080 measured at Moss Vale. Queensland: Moderate S.E. winds and fine weather. 3 p.m. Observations.—New South Wales: Eden, W., 14, fine, light N.E. sea, temperature 77°; Sydney, N.N.E., 6, storm from west, temperature 71°; New Zealand, weather fine at Wellington. At 6 p.m. a storm passed over Sydney, with heavy rain, thunder, and lightning. With it the barometer rose suddenly 0.14 inch, falling again as rapidly. During the whole afternoon the barometer has been very unsteady, as is usual during thunderstorms. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 6 inches above summer level; at Hay, 2 feet 5 inches above summer level; at Balranald, 3 feet above summer level. Murray: At Euston, 8 feet 1 inch above summer level. Darling: At Wentworth, 8 feet 5 inches above summer level; at Pooncarie, 5 feet 10 inches above summer level; at Menindie, 3 feet 4 inches above summer level; at Wilcannia, 3 feet 6 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 26 1881, with Notes to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50 81*s* *E*

Average Annual Rainfall for 21 years ..... 51·461
Average for 23 years from Jan. 1st to November 31 48 854
Total Rainfall from Jan. 1st to December 26 40 852.
Barometers corrected to 32° Fah. and Mean Sea Level

Stations	Wt	M'x	M.M	R'in
Casino..	b	90 57	0	
Tenterfield	b	96 54	0	
Moree....	b	98 74	0	
Grafton..	b	– 61	0	
Gl'n Inn's	b	94 52	0	
Inverell..	–	– –	–	
Bourke ...	b	103 85	0	
Narrabri	b	109 71	0	
Armidale	b	87[illegible]	0	
Bendem'r	b	95 53	0	
Ganned'h	–	— —	—	
Coonam'le	b	107 70	0	
Tamworth	b	111 60	0	
Coonab'rn	b	99 52	0	
P.Macqrie	b	82 68	0	
Wilcannia	b	114 81	0	
Murr'undi	b	94 69	0	
Cassilis..	b	104 60	0	
Mus'br'ok	b	105 60	0	
Dubbo...	b	101 74	0	
Menindie	b	111 79	0	
Mudgee..	b	103 65	0	
Maitland.	–	— —	—	
Hill End.	b	88	0	
Newcastle	b	95 68	0	
Orange..	b	93 67	0	
Bathurst	b	90 61	0	
	E			
Forb's	b	112 73	0	
Mt Vict'ria	g	94 55	0	
Cootab'lin	g	99 71	0	
Picton..	o	88 59	0	
Carcoar..	–	– –	—	
Wentw'th	b	91 64	0	
Young...	b	98 79	0	
Wollongong	–	— —	—	
Hay....	b	106 71	0	
Moss Vale	b	94 65	0 08	
Euston...	b	101 64	0	
Goulburn	b	102 68	0	
Wagga...	b	110 75	0	
Cape Geo.	c	87 61	0	
Queanb'n	b	104 70	0	
Deniliq'n	b	106 [illegible]5	0	
Moruya..	–	— —	—	
Kiamdra..	b	82 55	0	

Albury	b	—	63	0
B'd'lla	–	—	—	—
Cooma	b	98	50	0
Eden	–	—	—	—
Tabo	–	—	—	—

WEATHER.

b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME BALL
Drops at 1 p.m. S M or 2h 55m 9·19s a.m. Greenwich M'n Time
MAG. VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 27.

Victoria: Reports fine weather, with light, scattered clouds, winds light and variable, barometers falling, sea smooth, no rain. Low Heads, Tasmania: Dull, with fresh N.E. breeze. New South Wales: Cloudy on coast south of Sydney and inland as far as the mountains, sea smooth, barometers rising, wind light from south; for rainfall see map. Fine inland, light variable wind, barometer steady. 3 p.m. Observations. — New South Wales: Wentworth, N.W., fine, clear, temperature 83°; Albury, S.W., fine, clear, temperature 85°; Sydney, S.E., 14, fine, sea smooth, temperature 74°; Menindie, calm, fine, hot, temperature 89°; Bourke, S.S.E., fine, hot, temperature 95°; Goulburn, E., fine, temperature 77°; Cape George, S., fine, sea smooth, temperature 68°; Clarence River, S., 20, fine, sea smooth, temperature 81°. New Zealand: Fine generally, getting cloudy for N.W. winds. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Hay, 3 feet 3 inches above summer level; at Balranald, 1 foot 10 inches above summer level. Murray: At Euston, 8 feet 8 inches above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 27 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ S ; *Long.* 10*h.* 4*m.* 50 [illegible] E

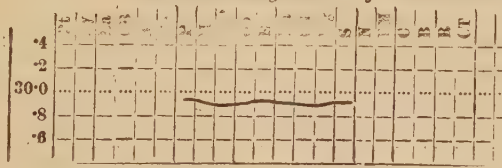
Average Annual Rainfall for 21 years 51·461

Average [illegible] 23 years from Jan 1st to November 31 48 554

Total [illegible] from Jan. 1st to December 27 40·992.

Baro[illegible] corrected to 32° Fah [illegible]

Curve showing state of Barometer.



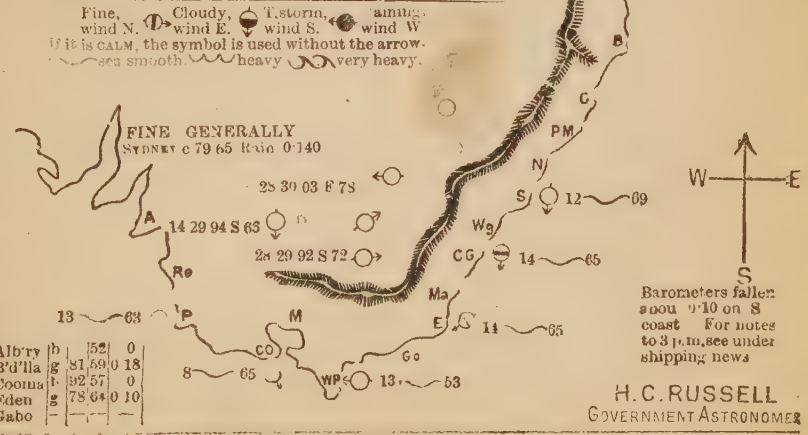
Fine, wind N. Cloudy, wind E. T.storm, wind S. [illegible]aming, wind W

If it is CALM, the symbol is used without the arrow.

sea smooth heavy very heavy.

Stations.	Wt	M's	M.T	R'in
Casino..	-	—	—	—
Tenterfild	-	—	—	—
Moree....	-	—	—	—
Grafton..	-	—	—	—
Gl'n Inn's	-	—	—	—
Inverell..	-	—	—	—
Bourke ..	-	—	—	—
Narrabri	-	—	—	—
Armidale	-	—	—	.
Bendem'r		—	—	—
Gunned'h	-	—	—	—
Coonam'le	-	—	—	—
Tamworth		—	—	—
Coonab'rn	b	105	62	0 09
P.Macqrie	-	—	—	—
Wilcannia	b	97	70	0
Murr'undi	-	—	—	—
Cassilis..	g	105	80	0
Mus'br'ok	-	—	—	—
Dubbo...	-	—	—	—
Menindie	b	96	68	0
Mudgee..	b	104	70	0
Maitland.	-	—	—	—
Hill End.	b	88	-	0
Newcastle	,	—	—	—
Orange..	.	—	—	-
Bathurst	b	96	60	0
	E			
Forb's	b	112	67	0
McVict'ria	-	—	—	—
Condob'lin	-	—	—	—
Picton..	o	88	63	0 82
Carcoar..	b	92	63	0
Wentw'th	b	96	59	0
Young...	b	99	67	0 35
Woilgo'ng	-	—	—	—
Hay....	b	95	60	0
Moss Vale	g	88	58	0 81
Euston...	b	101	59	0
Goulburn	g	89	60	0 74
Wagga...	b	107	62	0
Cape Geo.	c	71	56	0 18
Queanb'n	b	99	67	0 10
Deniliq'in	b	93	53	0
Moruya..	-	—	—	—
Bandra..	b	90	60	0

Alb'ry	b	52		0
B'd'lla	g	81	59	0 18
Cooma	t	92	57	0
Eden	g	78	64	0 10
Gabo	-	—	—	—



WEATHER.

b-Blue sky
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show's
q-Squally
r-Rain
t-Thunder
u-Threatening

M'T's WIND SCALE.

13-Li't brze
23-Mod. ,,
34-Fresh ,,
56-Strg gale
65-Whole ,,

TIME BALL Drops at 1 p.m. S M or 2h 55m 9·195 s m Greenwich M'n Time

MAG VAR. 9° 35 30 E

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 28.

Victoria : Cloudy weather round coast, with strong W. and N.W. winds; sea smooth. Barometers very low and still falling. Low Heads, Tasmania : Very low barometer, strong E.N.E. wind. New South Wales : Fine and clear generally, cloudy in S. and S.W. of colony. Barometers falling, wind on coast moderate from N.; sea smooth. Queensland : Fine with light S.E. and N.E. winds. 3 p.m. Observations.—Victoria : Melbourne, W., 28, showery, temperature 78°; Wilson's Promontory, N., 8, light rain, sea smooth, temperature 73°. New South Wales : Wentworth, N., temperature 98°; Goulburn, W., fine, temperature 78°; Moruya, N.E., 20, cloudy, sea moderate, temperature 73°; Cape George, N., 42, dull, sea smooth, temperature 74°; Sydney, N., 12, cloudy, sea smooth, temperature 80°; Newcastle, N.E., fine, sea smooth; Port Macquarie, N.E., 42, cloudy, sea smooth, temperature 79°; Menindie, N.N.W., 42, cloudy, hot, temperature 94°. New Zealand : Heavy rain from N.E. at Russell, S.E. winds in South Island, fine generally. There have been no telegrams from West or South Australia for some days; but those from Victoria show that these is a depression over Portland; barometers being very low, and wind beginning to change to W. and S.W. State of Rivers.—Murrumbidgee : At Wagga, 1 foot 5 inches above summer level; at Hay, 2 feet above summer level. Darling : At Wentworth, 7 feet 11 inches above summer level; at Menindie, 3 feet 2 inches above summer level; at Wilcannia, 3 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., : DEC 28 1881, with NOTES to 3 P.M.

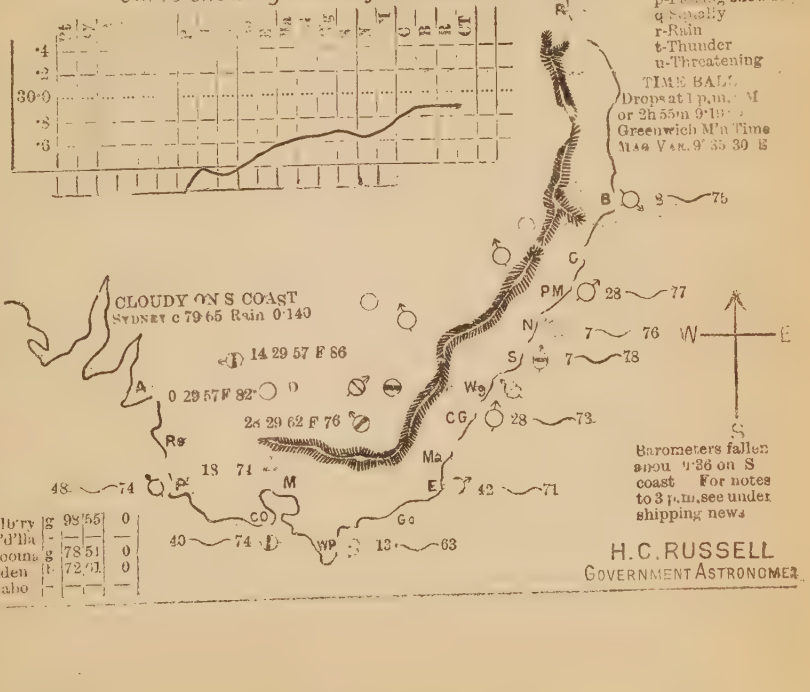
Sydney Observatory.

Lat. 33° 51′ 42″ S. ; *Long.* 10*h.* 4*m.* 50·21

Avers. [illegible] Rainfall for 21 years.
Aver[illegible] for 23 [illegible] from [illegible] 1st to
Total [illegible] from [illegible] 1st to
Bar[illegible] corrected to 32° Fah

November 31 48 854
December 28 40 992.
and Mean Sea-level

Curve showing state of Barometer.



H. C. RUSSELL
GOVERNMENT ASTRONOMER

[illegible]	b	103 67	0 45
[illegible]	b	102 64	0
Moree	-	— —	—
Gr[illegible]ton	b	— 64	0 24
Cl'n l'ur's	b	96 60	0
[illegible]	-	— —	—
Bourke	-	— —	—
Nafrabri	-	— —	—
Armidale	b	99 —	0 09
Bendem'r	b	101 59	0
Gunned'h	-	— —	—
Coonam'le	-	— —	—
Tamworth	-	— —	—
Coo[illegible]'rn	b	104 60	0
P. Macqrie	b	82 70	0
Wilcannia	g	100 80	0
Murr'undi	-	— —	—
Cassilis	b	101 73	0
Mus'br'ok	-	— —	—
Dubbo	-	— —	—
Menindie	c	100 78	0
Mudgee	b	100 66	0
Maitland	b	86 71	0
Hill End	b	93 —	0
Newcastle	b	81 69	0
Orange		— —	—
Bathurst	b	95 58	0
		E	
Forb's	b	102 63	0
Mt Vict'ria	b	81 57	0
Condob'lin	b	91 63	0
Picton	b	76 63	0
Carcoar	b	89 62	0
Wentw'th	g	99 80	0 01
Young	b	89 69	0
Wollgo'ng	b	90 65	0
Hay	c	96 58	0
Moss Vale	b	79 65	0
Euston	r	100 75	0
Goulburn	b	82 54	0
Wagga	g	97 61	0
Cape Geo.	b	74 59	0
Queanb'n	c	96 81	—
Deniliq'n	b	93 60	0
Moruya	-	— —	—
Kiandra	b	84 65	0

Albury	g	98 55	0
B'd'lla	-	— —	—
Cooma	g	78 51	0
Eden	b	72 61	0
Gabo	-	— —	—

METEOROLOGICAL REPORTS.—DECEMBER 29.

South Australia: Cloudy weather, over colony generally, with south-westerly winds and rising barometers; inland and western stations not received. Victoria: Cloudy and raining round coast, with rough sea, strong westerly winds and rising barometers; light rains have fallen; fierce W. squalls at Lake entrance. Tasmania: Strong westerly wind and cloudy weather. New South Wales: Fine at generality of inland stations, with rapidly rising barometers; cloudy on coast, winds strong from south, bars rising more slowly (see map). Queensland: Fine, with light N.E. and N. winds. 3 p.m. Observations.—Victoria: Melbourne, S.W., 18, dull, temperature 63°; Cape Otway, W.N.W., 48, cloudy sea rough, temperature 65°; Portland, W., 40, cloudy, sea smooth, temperature 64°; Wilson's Promontory, W., 56, gloomy, sea high, temperature 59°. New South Wales: Wentworth, S., cool, temperature 78°; Moruya, N.E., 14, fine, sea moderate, temperature 70°; Sydney, S.E., 1s, cloudy, sea smooth, temperature 73°; Port Macquarie, S., 56, stormy, sea smooth, temperature 81°; Menindie, S.W., fine, temperature 77°; Goulburn, W., fine, temperature 75°; Eden, N.E., 14, fine, light east, temperature 69°; Cape George, E., 14, cloudy, sea moderate, temperature 70°; Newcastle, S.S.E., fine, sea smooth; Clarence River, S.E., fine, sea smooth, temperature 78°. New Zealand: Barometers falling fast in South Island, 29·5 at the Bluff; rough sea at Hokitika; cloudy at North Island, with light N.W. winds. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Hay, 1 foot above summer level; at Balranald, 3 feet 6 inches above summer level. Murray: At Euston, 6 feet 6 inches above summer level. Darling: At Wentworth, 7 feet 9 inches above summer level; at Pooncarie, 5 feet 7 inches above summer level; at Menindie, 3 feet 1 inch above summer level; at Wilcannia, 3 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 29 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E.*

Average Annual Rainfall for 21 years
Average for 23 years from Jan. 1st to
Total rainfall from Jan. 1st to
Barometers corrected to 32° Fah.

November 31 48·854
December 29 40·092
and Mean Sea

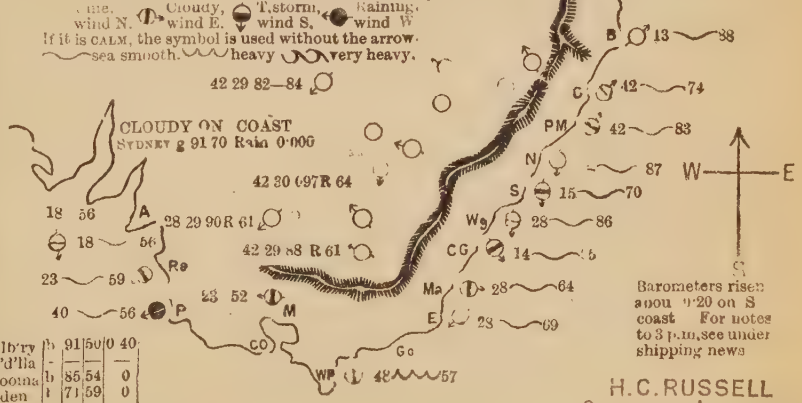
Curve showing state of Barometer.

Cloudy, wind N. T.storm, wind E. wind S. Raining, wind W.
If it is CALM, the symbol is used without the arrow.
sea smooth. heavy very heavy.

WIND SCALE.
13-Li't brze
23-Mod. „
34-Fresh „
56-Strg gale
65-Whole „

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
y-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

TIME
Drops at 1 p.m.
or 2h 55m 9·19s a.m.
Greenwich M'n Time
MAG. VAR. 9° 35′ 30″ E



Barometers risen about 0·20 on S coast. For notes to 3 p.m. see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

Stations.	W	B	T	R'fin
Casino..	b	105 74		0
Tenterfield	b	103 72		0
Moree....	b	107 85		0
Grafton...	g	97 60		0
Gl'n Inn's	b	97 67		0
Inverell..	b	91 70		0
Bourke ..		112 82		0
Narrabri	b	110 81		0
Armidale	b	91 —		0
Bendem'r	b	100 74		0
Gunned'h	b	113 70		0
Coonamble	–	— —		—
Tamworth	b	114 70		0
Coonab'rn	b	10[illegible] 71		0
P.Macqrie	b	[illegible]		0
Wilcannia	b	[illegible]		0 45
Murr'undi	b	[illegible]		[illegible]
Cessilis..	b	[illegible]		0
Mus'br'ok	b	11[illegible]		0
Dubbo...	b	101 [illegible]		0
Menindie	b	[illegible]		0
Mudgee..	b	107 72		0
Maitland.	b	102 80		0
Hill End.	b	93		0
Newcastle	b	99 70		0
Orange..	b	92 06		0
Bathurst	b	94 67	0	0 05
		E		
Forb's	b	98 65	0	0 02
Mt Vict'ria	–	— —		—
Condob'lin	b	80 53		0
Cicton..	b	89 61		0
Carcoar..	b	90 74		0
Wentw'th	b	102 54		0
Young...	b	93 61	0	0 04
Wollgo'ng	c	92 65		0
Hay....	b	99 53	0	11
Moss Vale	b	89 67		0
Euston...	b	104 55		0
Goulburn	b	97 62		0
Wagga...	b	94 55	0	18
Cape Geo.	c	64 59		0
Queanb'n	b	90 62	0	13
Deniliq'in	b	98 51		0
Moruya..	g	84 62		0
Kiandra..	b	83 64		0

Alb'ry	b	91	50	0 40
B'd'lla	–	—	—	—
Cooma	b	85	54	0
Eden	f	71	59	0
Gabo	–	—	—	—

METEOROLOGICAL REPORTS.—DECEMBER 30.

South Australia: Reports weather more or less cloudy at all stations as far as the 20° latitude; on the southern coast the sea is moderate; barometers steady, and wind light from S.W.; heavy thunderstorms inland yesterday; rain at Alice Springs, 0·570. Victoria: Cloudy weather all round coast, with fresh westerly wind; rising barometers, and rough sea. Low Heads, Tasmania: Fine fresh W. winds. New South Wales: Cloudy up on Queensland border; smooth sea on coast, with rapidly rising barometers; wind up N. fresh from S.E.; down S. light from west; calm and warm inland. Queensland: Fine weather in north, with light W. winds; cloudy in south, with light S.E. ditto. 3 p.m. Observations.—Victoria: Melbourne, S.S.W., 13, cloudy, temperature 66°; Portland, S.W., 28, dull, moderate sea, temperature 62°; Cape Otway, N.W., 13, cloudy, moderate sea, temperature 64°; Wilson's Promontory, W., 34, squally, rough sea, temperature 63°. New South Wales: Wentworth, W.N.W., fine, temperature 75°; Albury, N.W., fine, temperature 73°; Goulburn, calm, fine, temperature 73°; Eden, N.E., 14, fine, smooth sea, temperature 68°; Moruya, N.E., 28, fine, moderate sea, temperature 71°; Cape George, S.E., 14, fine, smooth sea, temperature 71°; Sydney, N.N.E., 12, fine, smooth sea, temperature 71°; Newcastle, N.E., fine, smooth sea; Port Macquarie, S.E., 14, cloudy, smooth sea, temperature 75°; Menindie, S.W., fine, temperature 79°. New Zealand: Strong N.W. winds all over New Zealand, rising to a gale 56 miles per hour at Hokitika; rain at Wellington, 0·30. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Hay, summer level; at Balranald, 2 feet 5 inches above summer level. Murray: At Euston, 7 feet above summer level. Darling: At Wentworth, 7 feet 7 inches above summer level; at Pooncarie, 5 feet 5 inches above summer level; at Menindie, 3 feet above summer level; at Wilcannia, 3 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 30 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50 81*s* *E.*

Average Annual Rainfall for 21 years ..... 51·461

Average for 23 years from Jan. 1st to November 31 48 854

Total Rainfall from Jan. 1st to December 30 40 992.

Barometers corrected to 32° Fah and Mean Sea Lev.

Stations	W't	M'x	Mo	R'in
Casino..	c	110	70	0
Tenterfild	g	99	62	0
Moree....	b	106	71	0
Grafton..	b	107	66	0
Gl'n Inn's	g	97	60	0
Inverell..	b	93	69	0
Bourke ..	b	93	64	0
Narrabri	b	103	60	0
Armidale	c	92	—	0
Bendem'r	b	100	54	0
Gunned'h	b	110	62	0
Coonam'le	-	—	—	—
Tamworth	b	108	57	0
Coonab'rn	b	95	53	0
P.Macqrie	c	87	67	0 25
Wilcannia	b	80	61	0
Murr'undi	b	94	67	0
Cassilis..	b	93	60	0
Mus'br'ok	b	103	62	0
Dubbo...	b	90	64	0
Menindie	b	79	59	0
Mudgee..	b	93	56	0
Maitland.	-	—	—	—
Hill End.	b	93	—	0
Newcastle	b	91	35	0
Orange..	b	76	43	0
Bathurst	b	79	44	0
	E			
Forb's	b	91	59	0
Mt Vict'ria	b	91	45	0
Condob'lin	b	78	43	0
Picton..	b	97	44	0
Carcoar..	b	81	39	0
Wentw'th	b	78	54	0
Young...	b	83	47	0
Wollgo'ng	b	75	55	0
Hay....	b	79	50	0
Moss Vale	b	78	49	0
Euston...	b	91	71	0
Goulburn	b	74	45	0
Wagga...	b	78	47	0
Cape Geo.	b	71	50	0
Queanb'n	b	71	54	0
Deniliq'in	b	76	48	0
Moruya...	b	71	50	0
Kiandra..	b	94	64	0

Alb'ry	b	77	43	0
B'd'lla	g	90	50	0
Cooma	b	68	38	0
Eden	b	76	53	0
Gabo	-	—	—	—

Curve showing state of Barometer.

8 30 35 R 62

As

Pt Ay Ea CB A Re P M WP Go

·4 ·2 30·0 ·8 ·6

Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W

If it is CALM, the symbol is used without the arrow.

sea smooth. heavy very heavy.

42 29 97 R 76

CLOUDY ON S COAST

SYDNEY b 75 61 Rain 0·000

28 30 18 R 68

8 66 A

0 30 18 R 68 D

13 60

6 30 04 R 64

Re

13 63

8 30 P M

18 59

CO

23 58 WP 28 57

Go

Ma E 14 73

Wg 11 12

CG 11

70

WEATHER.

1-Fine sky.
2-Scatter'd clouds
3-Drizzling rain
4-Fog
5-Gloomy, dull
6-Hail
7-Lightning
8-Frost
9-Dew
10-Mist
11-Fog
12-Thunderstorm
13-Passing showers
14-Snow
15-Rain
16-Thunder
17-Thunderstorm
18-Hail
19-Drizzling rain
20-Fog
21-Gloomy, dull
22-Hail
23-Lightning
24-Frost
25-Dew
26-Mist
27-Fog
28-Thunderstorm
29-Passing showers
30-Snow
31-Rain
32-Thunder
33-Thunderstorm
34-Hail
35-Drizzling rain
36-Fog
37-Gloomy, dull
38-Hail
39-Lightning
40-Frost
41-Dew
42-Mist
43-Fog
44-Thunderstorm
45-Passing showers
46-Snow
47-Rain
48-Thunder
49-Thunderstorm
50-Hail
51-Drizzling rain
52-Fog
53-Gloomy, dull
54-Hail
55-Lightning
56-Frost
57-Dew
58-Mist
59-Fog
60-Thunderstorm
61-Passing showers
62-Snow
63-Rain
64-Thunder
65-Thunderstorm
66-Hail
67-Drizzling rain
68-Fog
69-Gloomy, dull
70-Hail
71-Lightning
72-Frost
73-Dew
74-Mist
75-Fog
76-Thunderstorm
77-Passing showers
78-Snow
79-Rain
80-Thunder
81-Thunderstorm
82-Hail
83-Drizzling rain
84-Fog
85-Gloomy, dull
86-Hail
87-Lightning
88-Frost
89-Dew
90-Mist
91-Fog
92-Thunderstorm
93-Passing showers
94-Snow
95-Rain
96-Thunder
97-Thunderstorm
98-Hail
99-Drizzling rain
100-Fog
101-Gloomy, dull
102-Hail
103-Lightning
104-Frost
105-Dew
106-Mist
107-Fog
108-Thunderstorm
109-Passing showers
110-Snow
111-Rain
112-Thunder
113-Thunderstorm
114-Hail
115-Drizzling rain
116-Fog
117-Gloomy, dull
118-Hail
119-Lightning
120-Frost
121-Dew
122-Mist
123-Fog
124-Thunderstorm
125-Passing showers
126-Snow
127-Rain
128-Thunder
129-Thunderstorm
130-Hail
131-Drizzling rain
132-Fog
133-Gloomy, dull
134-Hail
135-Lightning
136-Frost
137-Dew
138-Mist
139-Fog
140-Thunderstorm
141-Passing showers
142-Snow
143-Rain
144-Thunder
145-Thunderstorm
146-Hail
147-Drizzling rain
148-Fog
149-Gloomy, dull
150-Hail
151-Lightning
152-Frost
153-Dew
154-Mist
155-Fog
156-Thunderstorm
157-Passing showers
158-Snow
159-Rain
160-Thunder
161-Thunderstorm
162-Hail
163-Drizzling rain
164-Fog
165-Gloomy, dull
166-Hail
167-Lightning
168-Frost
169-Dew
170-Mist
171-Fog
172-Thunderstorm
173-Passing showers
174-Snow
175-Rain
176-Thunder
177-Thunderstorm
178-Hail
179-Drizzling rain
180-Fog
181-Gloomy, dull
182-Hail
183-Lightning
184-Frost
185-Dew
186-Mist
187-Fog
188-Thunderstorm
189-Passing showers
190-Snow
191-Rain
192-Thunder
193-Thunderstorm
194-Hail
195-Drizzling rain
196-Fog
197-Gloomy, dull
198-Hail
199-Lightning
200-Frost
201-Dew
202-Mist
203-Fog
204-Thunderstorm
205-Passing showers
206-Snow
207-Rain
208-Thunder
209-Thunderstorm
210-Hail
211-Drizzling rain
212-Fog
213-Gloomy, dull
214-Hail
215-Lightning
216-Frost
217-Dew
218-Mist
219-Fog
220-Thunderstorm
221-Passing showers
222-Snow
223-Rain
224-Thunder
225-Thunderstorm
226-Hail
227-Drizzling rain
228-Fog
229-Gloomy, dull
230-Hail
231-Lightning
232-Frost
233-Dew
234-Mist
235-Fog
236-Thunderstorm
237-Passing showers
238-Snow
239-Rain
240-Thunder
241-Thunderstorm
242-Hail
243-Drizzling rain
244-Fog
245-Gloomy, dull
246-Hail
247-Lightning
248-Frost
249-Dew
250-Mist
251-Fog
252-Thunderstorm
253-Passing showers
254-Snow
255-Rain
256-Thunder
257-Thunderstorm
258-Hail
259-Drizzling rain
260-Fog
261-Gloomy, dull
262-Hail
263-Lightning
264-Frost
265-Dew
266-Mist
267-Fog
268-Thunderstorm
269-Passing showers
270-Snow
271-Rain
272-Thunder
273-Thunderstorm
274-Hail
275-Drizzling rain
276-Fog
277-Gloomy, dull
278-Hail
279-Lightning
280-Frost
281-Dew
282-Mist
283-Fog
284-Thunderstorm
285-Passing showers
286-Snow
287-Rain
288-Thunder
289-Thunderstorm
290-Hail
291-Drizzling rain
292-Fog
293-Gloomy, dull
294-Hail
295-Lightning
296-Frost
297-Dew
298-Mist
299-Fog
300-Thunderstorm
301-Passing showers
302-Snow
303-Rain
304-Thunder
305-Thunderstorm
306-Hail
307-Drizzling rain
308-Fog
309-Gloomy, dull
310-Hail
311-Lightning
312-Frost
313-Dew
314-Mist
315-Fog
316-Thunderstorm
317-Passing showers
318-Snow
319-Rain
320-Thunder
321-Thunderstorm
322-Hail
323-Drizzling rain
324-Fog
325-Gloomy, dull
326-Hail
327-Lightning
328-Frost
329-Dew
330-Mist
331-Fog
332-Thunderstorm
333-Passing showers
334-Snow
335-Rain
336-Thunder
337-Thunderstorm
338-Hail
339-Drizzling rain
340-Fog
341-Gloomy, dull
342-Hail
343-Lightning
344-Frost
345-Dew
346-Mist
347-Fog
348-Thunderstorm
349-Passing showers
350-Snow
351-Rain
352-Thunder
353-Thunderstorm
354-Hail
355-Drizzling rain
356-Fog
357-Gloomy, dull
358-Hail
359-Lightning
360-Frost
361-Dew
362-Mist
363-Fog
364-Thunderstorm
365-Passing showers
366-Snow
367-Rain
368-Thunder
369-Thunderstorm
370-Hail
371-Drizzling rain
372-Fog
373-Gloomy, dull
374-Hail
375-Lightning
376-Frost
377-Dew
378-Mist
379-Fog
380-Thunderstorm
381-Passing showers
382-Snow
383-Rain
384-Thunder
385-Thunderstorm
386-Hail
387-Drizzling rain
388-Fog
389-Gloomy, dull
390-Hail
391-Lightning
392-Frost
393-Dew
394-Mist
395-Fog
396-Thunderstorm
397-Passing showers
398-Snow
399-Rain
400-Thunder
401-Thunderstorm
402-Hail
403-Drizzling rain
404-Fog
405-Gloomy, dull
406-Hail
407-Lightning
408-Frost
409-Dew
410-Mist
411-Fog
412-Thunderstorm
413-Passing showers
414-Snow
415-Rain
416-Thunder
417-Thunderstorm
418-Hail
419-Drizzling rain
420-Fog
421-Gloomy, dull
422-Hail
423-Lightning
424-Frost
425-Dew
426-Mist
427-Fog
428-Thunderstorm
429-Passing showers
430-Snow
431-Rain
432-Thunder
433-Thunderstorm
434-Hail
435-Drizzling rain
436-Fog
437-Gloomy, dull
438-Hail
439-Lightning
440-Frost
441-Dew
442-Mist
443-Fog
444-Thunderstorm
445-Passing showers
446-Snow
447-Rain
448-Thunder
449-Thunderstorm
450-Hail
451-Drizzling rain
452-Fog
453-Gloomy, dull
454-Hail
455-Lightning
456-Frost
457-Dew
458-Mist
459-Fog
460-Thunderstorm
461-Passing showers
462-Snow
463-Rain
464-Thunder
465-Thunderstorm
466-Hail
467-Drizzling rain
468-Fog
469-Gloomy, dull
470-Hail
471-Lightning
472-Frost
473-Dew
474-Mist
475-Fog
476-Thunderstorm
477-Passing showers
478-Snow
479-Rain
480-Thunder
481-Thunderstorm
482-Hail
483-Drizzling rain
484-Fog
485-Gloomy, dull
486-Hail
487-Lightning
488-Frost
489-Dew
490-Mist
491-Fog
492-Thunderstorm
493-Passing showers
494-Snow
495-Rain
496-Thunder
497-Thunderstorm
498-Hail
499-Drizzling rain
500-Fog
501-Gloomy, dull
502-Hail
503-Lightning
504-Frost
505-Dew
506-Mist
507-Fog
508-Thunderstorm
509-Passing showers
510-Snow
511-Rain
512-Thunder
513-Thunderstorm
514-Hail
515-Drizzling rain
516-Fog
517-Gloomy, dull
518-Hail
519-Lightning
520-Frost
521-Dew
522-Mist
523-Fog
524-Thunderstorm
525-Passing showers
526-Snow
527-Rain
528-Thunder
529-Thunderstorm
530-Hail
531-Drizzling rain
532-Fog
533-Gloomy, dull
534-Hail
535-Lightning
536-Frost
537-Dew
538-Mist
539-Fog
540-Thunderstorm
541-Passing showers
542-Snow
543-Rain
544-Thunder
545-Thunderstorm
546-Hail
547-Drizzling rain
548-Fog
549-Gloomy, dull
550-Hail
551-Lightning
552-Frost
553-Dew
554-Mist
555-Fog
556-Thunderstorm
557-Passing showers
558-Snow
559-Rain
560-Thunder
561-Thunderstorm
562-Hail
563-Drizzling rain
564-Fog
565-Gloomy, dull
566-Hail
567-Lightning
568-Frost
569-Dew
570-Mist
571-Fog
572-Thunderstorm
573-Passing showers
574-Snow
575-Rain
576-Thunder
577-Thunderstorm
578-Hail
579-Drizzling rain
580-Fog
581-Gloomy, dull
582-Hail
583-Lightning
584-Frost
585-Dew
586-Mist
587-Fog
588-Thunderstorm
589-Passing showers
590-Snow
591-Rain
592-Thunder
593-Thunderstorm
594-Hail
595-Drizzling rain
596-Fog
597-Gloomy, dull
598-Hail
599-Lightning
600-Frost
601-Dew
602-Mist
603-Fog
604-Thunderstorm
605-Passing showers
606-Snow
607-Rain
608-Thunder
609-Thunderstorm
610-Hail
611-Drizzling rain
612-Fog
613-Gloomy, dull
614-Hail
615-Lightning
616-Frost
617-Dew
618-Mist
619-Fog
620-Thunderstorm
621-Passing showers
622-Snow
623-Rain
624-Thunder
625-Thunderstorm
626-Hail
627-Drizzling rain
628-Fog
629-Gloomy, dull
630-Hail
631-Lightning
632-Frost
633-Dew
634-Mist
635-Fog
636-Thunderstorm
637-Passing showers
638-Snow
639-Rain
640-Thunder
641-Thunderstorm
642-Hail
643-Drizzling rain
644-Fog
645-Gloomy, dull
646-Hail
647-Lightning
648-Frost
649-Dew
650-Mist
651-Fog
652-Thunderstorm
653-Passing showers
654-Snow
655-Rain
656-Thunder
657-Thunderstorm
658-Hail
659-Drizzling rain
660-Fog
661-Gloomy, dull
662-Hail
663-Lightning
664-Frost
665-Dew
666-Mist
667-Fog
668-Thunderstorm
669-Passing showers
670-Snow
671-Rain
672-Thunder
673-Thunderstorm
674-Hail
675-Drizzling rain
676-Fog
677-Gloomy, dull
678-Hail
679-Lightning
680-Frost
681-Dew
682-Mist
683-Fog
684-Thunderstorm
685-Passing showers
686-Snow
687-Rain
688-Thunder
689-Thunderstorm
690-Hail
691-Drizzling rain
692-Fog
693-Gloomy, dull
694-Hail
695-Lightning
696-Frost
697-Dew
698-Mist
699-Fog
700-Thunderstorm
701-Passing showers
702-Snow
703-Rain
704-Thunder
705-Thunderstorm
706-Hail
707-Drizzling rain
708-Fog
709-Gloomy, dull
710-Hail
711-Lightning
712-Frost
713-Dew
714-Mist
715-Fog
716-Thunderstorm
717-Passing showers
718-Snow
719-Rain
720-Thunder
721-Thunderstorm
722-Hail
723-Drizzling rain
724-Fog
725-Gloomy, dull
726-Hail
727-Lightning
728-Frost
729-Dew
730-Mist
731-Fog
732-Thunderstorm
733-Passing showers
734-Snow
735-Rain
736-Thunder
737-Thunderstorm
738-Hail
739-Drizzling rain
740-Fog
741-Gloomy, dull
742-Hail
743-Lightning
744-Frost
745-Dew
746-Mist
747-Fog
748-Thunderstorm
749-Passing showers
750-Snow
751-Rain
752-Thunder
753-Thunderstorm
754-Hail
755-Drizzling rain
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784-Thunder
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787-Drizzling rain
788-Fog
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792-Frost
793-Dew
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795-Fog
796-Thunderstorm
797-Passing showers
798-Snow
799-Rain
800-Thunder
801-Thunderstorm
802-Hail
803-Drizzling rain
804-Fog
805-Gloomy, dull
806-Hail
807-Lightning
808-Frost
809-Dew
810-Mist
811-Fog
812-Thunderstorm
813-Passing showers
814-Snow
815-Rain
816-Thunder
817-Thunderstorm
818-Hail
819-Drizzling rain
820-Fog
821-Gloomy, dull
822-Hail
823-Lightning
824-Frost
825-Dew
826-Mist
827-Fog
828-Thunderstorm
829-Passing showers
830-Snow
831-Rain
832-Thunder
833-Thunderstorm
834-Hail
835-Drizzling rain
836-Fog
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839-Lightning
840-Frost
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847-Rain
848-Thunder
849-Thunderstorm
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852-Fog
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855-Lightning
856-Frost
857-Dew
858-Mist
859-Fog
860-Thunderstorm
861-Passing showers
862-Snow
863-Rain
864-Thunder
865-Thunderstorm
866-Hail
867-Drizzling rain
868-Fog
869-Gloomy, dull
870-Hail
871-Lightning
872-Frost
873-Dew
874-Mist
875-Fog
876-Thunderstorm
877-Passing showers
878-Snow
879-Rain
880-Thunder
881-Thunderstorm
882-Hail
883-Drizzling rain
884-Fog
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894-Snow
895-Rain
896-Thunder
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912-Thunder
913-Thunderstorm
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992-Thunder
993-Thunderstorm
994-Hail
995-Drizzling rain
996-Fog
997-Gloomy, dull
998-Hail
999-Lightning
1000-Frost

Barometers risen ... 30 on E. coast. For notes to 3 p.m., see under shipping news.

H. C. RUSSELL
GOVERNMENT ASTRONOMER

METEOROLOGICAL REPORTS.—DECEMBER 31.

South Australia: Light southerly winds, cool. Victoria: Cloudy, with fresh S.W. winds and falling barometer; sea moderate; showery during night at Lakes entrance. Low Heads, Tasmania: Weather cloudy, wind fresh from W. New South Wales: Weather turned and turning cloudy at all except South-Western stations; cloudy all up coast, with slowly falling barometers; light N.E. winds and calms, and smooth sea; raining lightly at Eden and Muswellbrook. Queensland: Cloudy and calm at Rockhampton; fine, with light S. wind at Brisbane. 3 p.m. Observations.—Victoria: Barometers steady; Portland, W., 28, fine, smooth sea, temperature 65°; Cape Otway, W., 12, fine, moderate sea, temperature 67°; Wilson's Promontory, W., 20, fine, smooth sea, temperature 64°. New South Wales: Wentworth, S., fine, temperature 76°; Albury, W., 10, fine; Goulburn, calm, fine, temperature 70°; Forbes, calm, fine, temperature 88°; Eden, E.S.E., 20, fine, smooth sea, temperature 65°; Moruya, E.S.E., 14 cloudy, temperature 72°; Cape George, N., 20, fine, sea moderate, temperature 71°; Sydney, N.E., 10, fine, warm, smooth sea, temperature 73°; Newcastle, N., cloudy, smooth sea; Port Macquarie, cloudy, smooth sea, temperature 75°; Menindie, S.W., fine, temperature 79°. New Zealand: Strong N.W. winds generally, 48 miles, squally and oppressive. State of Rivers.—Murrumbidgee: At Wagga, 1 foot 5 inches above summer level; at Balranald, 1 foot above summer level. Murray: At Euston, 7 feet above summer level. Darling: At Wentworth, 7 feet 5 inches above summer level; at Pooncarie, 3 feet 3 inches above summer level; at Menindie, 3 feet above summer level; at Wilcannia, 3 feet above summer level.

WEATHER MAP.

COMPILED from TELEGRAMS for 9 A.M., DEC 31 1881, with NOTES to 3 P.M.

Sydney Observatory.

Lat. 33° 51′ 41″ *S.*; *Long.* 10*h.* 4*m.* 50·81*s* *E*

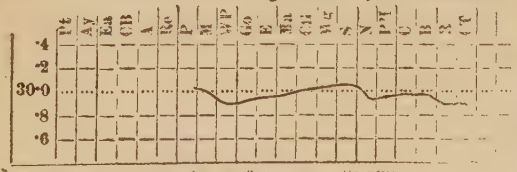
Average Annual Rainfall for 21 years ..... 51·461
Average for 23 years from Jan. 1st to November 31 48·854
Total Rainfall from Jan. 1st to December 31 40·992.
Barometers corrected to 32° Fah and Mean Sea Lev.

Stations.	W't	M'x	M.D	R'in
Casino..	b	81	59	0
Tenterfild	—	—	—	—
Moree....	g	102	72	0
Grafton..	g	87	62	0
Gl'n Inn's	b	96	58	0
Inverell..	b	84	68	0
Bourke ..	c	91	71	0
Narrabri	c	109	69	0
Armidale	g	75	—	0
Bendem'r	g	93	52	0
Gunned'h	—	—	—	—
Coonam'le	—	—	—	—
Tamworth	c	—	—	—
Coonab'rn	g	108	63	0
P.Macqrie	c	94	66	0
Wilcannia	b	72	68	0
Murr'undi	g	109	3a	0
Cassilis..	g	89	69	0
Mus'br'ok	d	98	68	0
Dubbo...	b	94	62	0
Menindie	b	89	71	0
Mudgee...	g	83	63	0
Maitland.	g	90	65	0
Hill End.	b	90	—	0
Newcastle	g	90	66	0
Orange..	g	81	58	0
Bathurst	—	—	—	—
	E			
Forb's	b	90	56	0
Mt Vict'ria	c	89	53	0
Condob'lin	—	—	—	—
Picton .	g	82	58	0
Carcoar..	—	—	—	—
Wentw'th	b	84	55	0
Young...	b	93	58	0
Wollgo'ng	—	—	—	—
Hay....	—	—	—	—
Moss Vale	b	82	55	0
Euston...	—	—	—	—
Goulburn	b	90	56	0
Wagga...	b	88	54	0
Cape Geo.	c	75	57	0
Queanb'n	b	50	40	0
Deniliq'n	b	85	54	0
Moruya..	—	—	—	—
Kiandra..	b	98	74	0

Albury	b	88	51	0
B'd'lla	—	—	—	—
Cooma	b	85	48	0
Eden	d	76	59	0
Gabo	—	—	—	—

As

Curve showing state of Barometer.



Fine, wind N. Cloudy, wind E. T.storm, wind S. Raining, wind W

If it is CALM, the symbol is used without the arrow.

sea smooth. heavy very heavy.

28 29 92 F 79

CLOUDY ON S COAST
SYDNEY g 75 67 Rain 0 000

28 30 13 F 63

0 30 01 F 66

14 29 94 F 76

13 59

23 — 59 P M

23 — 59 CO

13 — 56 WP

Ma E 11 — 61

Wg CG 0 — 7

Co

PM 14 — 71

N 7 — 72

S 14 — 79

C 0 — 73

B S — 83

WEATHER.
b-Blue sky.
c-Scatter'd clouds
d-Drizzling rain
f-Fog
g-Gloomy, dull
h-Hail
l-Lightning
m-Misty
n-Frost
o-Overcast
p-Passing show'rs
q-Squally
r-Rain
t-Thunder
u-Threatening

Mls WIND SCALE.
13-Light breze
23-Mod. "
34-Fresh "
56-Strong gale
65-Whole "

TIME BALL
Drops at 1 p.m. S M
or 2h 55m 9·19s a.m
Greenwich M'n Time
MAG VAR. 9° 35 30 E

W — E

Barometers fallen about 0·10 on E coast. For notes to 3 p.m., see under shipping news.

H.C. RUSSELL
GOVERNMENT ASTRONOMER

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